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Division of Economics and History

John Bates Clark, Director

ECONOMIC AND SOCIAL HISTORY OF THE WORLD WAR

British Series

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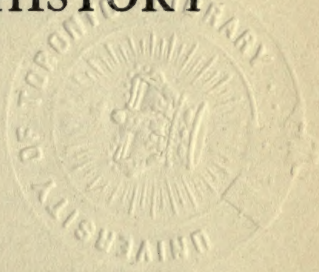
BIBLIOGRAPHICAL SURVEY

OF

CONTEMPORARY SOURCES

FOR THE

ECONOMIC AND SOCIAL HISTORY OF THE WAR



BY

M. E. BULKLEY, B.A., B.Sc.

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EDITOR'S PREFACE

In the autumn of 1914 when the scientific study of the effects of war upon modern life passed suddenly from theory to history, the Division of Economics and History of the Carnegie Endowment for International Peace proposed to adjust the programme of its researches to the new and altered problems which the War presented. The existing programme, which had been prepared as the result of a conference of economists held at Berne in 1911, and which dealt with the facts then at hand, had just begun to show the quality of its contributions; but for many reasons it could no longer be followed out. A plan was therefore drawn up at the request of the Director of the Division, in which it was proposed by means of an historical survey, to attempt to measure the economic cost of the War and the displacement which it was causing in the processes of civilization. Such an 'Economic and Social History of the World War', it was felt, if undertaken by men of judicial temper and adequate training, might ultimately, by reason of its scientific obligations to truth, furnish data for the forming of sound public opinion, and thus contribute fundamentally toward the aims of an institution dedicated to the cause of international peace.

The need for such an analysis, conceived and executed in the spirit of historical research, was increasingly obvious as the War developed, releasing complex forces of national life not only for the vast process of destruction but also for the stimulation of new capacities for production. This new economic activity, which under normal conditions of peace might have been a gain to society, and the surprising capacity exhibited by the belligerent nations for enduring long and increasing loss—often while presenting the outward semblance of new prosperity—made necessary a reconsideration of the whole field of war economics. A double obligation was therefore placed upon the Division of Economics and History. It was obliged to concentrate its work upon the

problem thus presented, and to study it as a whole; in other words, to apply to it the tests and disciplines of history. Just as the War itself was a single event, though penetrating by seemingly unconnected ways to the remotest parts of the world, so the analysis of it must be developed according to a plan at once all embracing and yet adjustable to the practical limits of the available data.

During the actual progress of the War, however, the execution of this plan for a scientific and objective study of war economics proved impossible in any large and authoritative way. Incidental studies and surveys of portions of the field could be made and were made under the direction of the Division, but it was impossible to undertake a general history for obvious reasons. In the first place, an authoritative statement of the resources of belligerents bore directly on the conduct of armies in the field. The result was to remove as far as possible from scrutiny those data of the economic life of the countries at war which would ordinarily, in time of peace, be readily available for investigation. In addition to this difficulty of consulting documents, collaborators competent to deal with them were for the most part called into national service in the belligerent countries and so were unavailable for research. The plan for a war history was therefore postponed until conditions should arise which would make possible not only access to essential documents but also the co-operation of economists, historians, and men of affairs in the nations chiefly concerned, whose joint work would not be misunderstood either in purpose or in content.

Upon the termination of the War the Endowment once more took up the original plan, and it was found, with but slight modification to be applicable to the situation. Work was begun in the summer and autumn of 1919. In the first place a final conference of the Advisory Board of Economists of the Division of Economics and History was held in Paris, which limited itself to planning a series of short preliminary surveys of special fields. Since, however, the purely preliminary character of such studies was further emphasized by the fact that they were

directed more especially towards those problems which were then fronting Europe as questions of urgency, it was considered best not to treat them as part of the general survey but rather as of contemporary value in the period of war settlement. It was clear that not only could no general programme be laid down *a priori* by this conference as a whole, but that a new and more highly specialized research organization than that already existing would be needed to undertake the Economic and Social History of the War, one based more upon national grounds in the first instance and less upon purely international co-operation. Until the facts of national history could be ascertained, it would be impossible to proceed with comparative analysis; and the different national histories were themselves of almost baffling intricacy and variety. Consequently the former European Committee of Research was dissolved, and in its place it was decided to erect an Editorial Board in each of the larger countries and to nominate special editors in the smaller ones, who should concentrate, for the present at least, upon their own economic and social war history.

The nomination of these boards by the General Editor was the first step taken in every country where the work has begun. And if any justification was needed for the plan of the Endowment, it at once may be found in the lists of those, distinguished in scholarship or in public affairs, who have accepted the responsibility of editorship. This responsibility is by no means light, involving, as it does, the adaptation of the general editorial plan to the varying demands of national circumstances or methods of work; and the measure of success attained is due to the generous and earnest co-operation of those in charge in each country.

Once the editorial organization was established there could be little doubt as to the first step which should be taken in each instance toward the actual preparation of the history. Without documents there can be no history. The essential records of the War, local as well as central, have therefore to be preserved and to be made available for research in so far as is compatible with public interest. But this archival task is a very great one, belonging of right to the governments and other owners of historical sources

and not to the historian or economist who proposes to use them. It is an obligation of ownership; for all such documents are public trust. The collaborators on this section of the war history, therefore, working within their own field as researchers, could only survey the situation as they found it and report their findings in the form of guides or manuals; and perhaps, by stimulating a comparison of methods, help to further the adoption of those found to be most practical. In every country, therefore, this was the point of departure for actual work; although special monographs have not been written in every instance.

This first stage of the work upon the war history, dealing with little more than the externals of archives, seemed for a while to exhaust the possibilities of research. And had the plan of the history been limited to research based upon official documents, little more could have been done, for once documents have been labelled 'secret' few government officials can be found with sufficient courage or initiative to break open the seal. Thus vast masses of source material essential for the historian were effectively placed beyond his reach, although much of it was quite harmless from any point of view. While war conditions thus continued to hamper research, and were likely to do so for many years to come, some alternative had to be found.

Fortunately such an alternative was at hand in the narrative, amply supported by documentary evidence, of those who had played some part in the conduct of affairs during the war, or who, as close observers in privileged positions, were able to record from first or at least second-hand knowledge the economic history of different phases of the great war, and of its effect upon society. Thus a series of monographs was planned consisting for the most part of unofficial yet authoritative statements, descriptive or historical, which may best be described as about half-way between memoirs and blue-books. These monographs make up the main body of the work assigned so far. They are not limited to contemporary, war-time studies; for the economic history of the war must deal with a longer period than that of the actual fighting. It must cover the years of 'deflation' as well, at least sufficiently

to secure some fairer measure of the economic displacement than is possible in purely contemporary judgments.

With this phase of the work, the editorial problems assumed a new aspect. The series of monographs had to be planned primarily with regard to the availability of contributors, rather than of source material as in the case of most histories; for the contributors themselves controlled the sources. This in turn involved a new attitude towards those two ideals which historians have sought to emphasize, consistency and objectivity. In order to bring out the chief contribution of each writer it was impossible to keep within narrowly logical outlines; facts would have to be repeated in different settings and seen from different angles, and sections included which do not lie within the strict limits of history; and absolute objectivity could not be obtained in every part. Under the stress of controversy or apology, partial views would here and there find their expression. But these views are in some instances an intrinsic part of the history itself, contemporary measurements of facts as significant as the facts with which they deal. Moreover, the work as a whole is planned to furnish its own corrective; and where it does not, others will.

In addition to this monographic treatment of source material, a number of studies by specialists is already in preparation, dealing with technical or limited subjects, historical or statistical. These monographs also partake to some extent of the nature of first-hand material, registering as they do the data of history close enough to the source to permit verification in ways impossible later. But they also belong to that constructive process by which history passes from analysis to synthesis. The process is a long and difficult one, however, and work upon it has only just begun. To quote an apt characterization, in the first stages of a history like this one is only 'picking cotton'. The tangled threads of events have still to be woven into the pattern of history; and for this creative and constructive work different plans and organizations may be needed.

In a work which is the product of so complex and varied co-operation as this, it is impossible to indicate in any but

a most general way the apportionment of responsibility of editors and authors for the contents of the different monographs. For the plan of the History as a whole and its effective execution the General Editor is responsible; but the arrangement of the detailed programmes of study has been largely the work of the different Editorial Boards and divisional Editors, who have also read the manuscripts prepared under their direction. The acceptance of a monograph in this series, however, does not commit the editors to the opinions or conclusions of the authors. Like other editors, they are asked to vouch for the scientific merit, the appropriateness and usefulness of the volumes admitted to the series; but the authors are naturally free to make their individual contributions in their own way. In like manner the publication of the monographs does not commit the Endowment to agreement with any specific conclusions which may be expressed therein. The responsibility of the Endowment is to History itself—an obligation not to avoid but to secure and preserve variant narratives and points of view, in so far as they are essential for the understanding of the War as a whole.

J. T. S.

AUTHOR'S PREFACE

My acknowledgments are due to the many persons who have assisted me in the compilation of this work. The great majority of the sections have been submitted to experts and many valuable suggestions and criticisms have been made. In this connexion I have to thank the Rev. Henry Carter, Miss E. A. Charlesworth, Mr. G. D. H. Cole, Mr. H. W. C. Davis, Mrs. Bernard Drake, Mr. C. Ernest Fayle, Dr. W. A. Herdman, Miss B. L. Hutchins, Mr. G. C. Lloyd, Sir Thomas Middleton, Sir Richard Redmayne, Sir Edward Troup, and many others too numerous to mention individually.

I also wish warmly to thank Mr. B. M. Headicar, Librarian of the London School of Economics, who has been untiring in suggesting sources of material and placing facilities at my disposal; and my two assistants, Miss Joan Joshua and Miss Nancy Thomas. Miss Thomas is largely responsible for the sections on Education, Housing, and the Liquor Trade; Miss Joshua for the sections on Finance and Railways; to the latter I am also greatly indebted for much valuable and often laborious work in connexion with the whole book.

The scope of the bibliography having been considerably enlarged during the progress of the work, it has been difficult to ensure consistency throughout, and some sections will be found less full than others. In any case, in a work like this there must be many omissions and the choice of material is always open to criticism. Any suggestions for improvement in this regard will therefore be welcome.

M. E. BULKLEY.

October, 1921.

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INTRODUCTION

THE following Bibliography is a tentative survey of the literature dealing with the Economic and Social History of the United Kingdom during the War and Reconstruction periods. Speaking generally it contains only British publications, though a few American and foreign books are included. It does not (with one or two exceptions) include publications issued later than December 1920. In a few cases pre-war publications have been added where these seemed important for an understanding of the normal conditions prevailing in the industry concerned and of the subsequent war developments. Technical publications have not been included, unless these appeared to have a bearing on the development of the industry.

The list is primarily one of Government publications. For this purpose the lists of 'Parliamentary Publications' and of 'Official Publications', both issued by H.M. Stationery Office (the latter without an index), have been examined for the period from August 1914 to December 1920.[1] It is only in this direction that the bibliography can lay any claim to completeness. With regard to the books, pamphlets, articles from periodicals, reports of societies, trade journals, &c., no such claim can be made. A list of periodicals, &c. which have been consulted is given below.[2] These have been examined with a view to the selection of the more important articles coming within the scope of the bibliography; those which contain only unimportant expressions of opinion, or which seem to be of merely ephemeral interest, have been omitted.

For further articles in periodicals the student may be referred to the following Indexes:

(1) The *Subject Index to Periodicals*, an index to certain English and American and a few foreign periodicals issued by the

[1] A Supplementary List, classified but not annotated, of Parliamentary and Official Publications issued during the period January to June 1921 (inclusive) is also given *vide infra*, pp. 603–30).

[2] P. xx.

Library Association. The volume for 1915–16 was published in 1919 and only a few parts of the volume for 1917–19 have so far appeared.

(2) The *Reader's Guide to Periodical Literature*, an index to American periodicals, and the *Readers' Guide Supplement* (now the *International Index to Periodicals*), which includes a few English and foreign publications. Both of these are published by the H. W. Wilson Co., New York. They are issued monthly, quarterly, and annually.

(3) The *Public Affairs Information Service*, an index to recent periodicals and books dealing with sociology, political science and economics, issued in the form of weekly bulletins, bi-monthly cumulations, and an annual cumulated volume, by the H. W. Wilson Co.

(4) An up-to-date card index to about a hundred English, American and foreign periodicals which for the most part are not included in any of the above, compiled by the staff of the British Library of Political Science (London School of Economics).

For recent books the following general catalogues may be consulted: *The English Catalogue of Books*, an annual cumulation of the weekly lists appearing in the *Publishers' Circular* (Adam Street, Strand: 15*s.* yearly), which gives a list (unclassified) of all books published during the year, with an appendix of learned societies, &c. and list of their publications; *The British Museum Monthly Catalogue* (also unclassified) of additions to the Museum; *The Bookseller*, a monthly classified list of books, published by J. Whittaker & Sons, 12 Warwick Lane, London; *The Book Index*, founded in September 1920, a roughly classified record of books published, issued weekly, with monthly alphabetical and classified guides, published by the Holerth Service, 46 Fleet Street. Reference may also be made to the *Catalogue of War Publications*, issued by the Central Committee for National Patriotic Organizations;[1] and to the recently published sixth edition of *What to Read on Social and Economic Subjects*, a select bibliography

[1] Catalogue of War Publications, comprising works published to June 1916. Compiled by G. W. Prothero, with the assistance of Alex. J. Philip. John Murray. 1917. vi+259 pp.

compiled by the Fabian Society.[1] Among reviews one of the best for the purpose is the *American Economic Review* (published quarterly), which gives a classified list of new economic books in all countries and abstracts of articles in current economic periodicals. The *Document Catalogue* and also the *Monthly Catalogue* of United States Government Publications (both issued by the Government Printing Office, Washington) include some reports on industrial and social conditions in the United Kingdom.

A word may be added as to the value of war literature generally. Owing to the circumstances of the time—the Defence of the Realm Regulations, which severely restricted the publication of information, the scarcity of paper (especially towards the end of the war), and the absorption of the greater part of the nation in practical and strenuous work which allowed little leisure for the recording of facts and impressions—the literature for the period is unfortunately in many directions meagre. For instance, the search for materials for a history of the State control of the railways, one of the most interesting of the war experiments, yielded disappointing results; with regard to shipbuilding little detailed information was published owing to the necessity for secrecy as to output; and similarly with other industries. In some cases the annual reports of Government departments and other organizations were so much curtailed as to be little more than formal. Again, owing partly to the strict press censorship, partly to the patriotic desire not to embarrass the Government by criticism but to endure restrictions and interference with a good grace, the press hardly adequately reflects the amount of opposition to Government control. Opinions expressed verbally by employers in the engineering industry, for instance, were sometimes considerably stronger than the moderate criticism which appeared in print.

[1] Published by Fabian Society and Geo. Allen and Unwin, price 2*s*.

NOTE AS TO ARRANGEMENT AND ABBREVIATIONS USED

With regard to the arrangement of the various items included in the bibliography, the order which has been adopted is as follows: (I) Acts of Parliament; (II) Official Publications; (III) Books and Periodicals; (IV) Trade and Technical Journals. Under Class II are entered, first, general publications, such as Law Reports, Manuals of Emergency Legislation, Statutory Rules and Orders, &c., and then the publications issued by the various Government Departments. Publications of Scottish and Irish departments are all given under the main heading, 'Scotland' or 'Ireland', being then arranged according to the department. Select Committees are entered under the heading 'Committees', Departmental Committees under their several departments. Class III includes pamphlets, reports and transactions of societies, articles from reviews, &c. Class IV contains the names of the principal trade and technical journals dealing with the subject under review. Special articles occurring in such ournals are included in Class III.

In Class II, the volume number given after each 'Command' (Cd., Cmd.) or sessional paper is the number in the official series of bound volumes for the year in question.

The abbreviation H.M.S.O. has been used throughout for H.M. Stationery Office. For abbreviations of Reviews, &c., see the list below.

The place of publication is London unless otherwise specified.

The prices given for Journals are to be taken as approximate only, as they have frequently varied during the period under review.

The following is a list of the more important general periodicals which have been consulted. These have been examined, except where otherwise stated, to the end of 1920. Periodicals and transactions of societies dealing with special subjects will be found under the sections to which they belong. The letters given on the left-hand side are the abbreviations used in the bibliography.

	Better Business.
	Board of Agriculture, Journal of.
	Board of Trade Journal.
B.M.J.	British Medical Journal.
C.O.R.	Charity Organisation Review.
C.R.	Contemporary Review.
	Department of Agriculture and Technical Instruction for Ireland, Journal of.
Econ.Jl.	Economic Journal.
	Economist.
Ed.R.	Edinburgh Review.
E.R.	English Review.
E.W.	Englishwoman.
F.R.R.	Financial Review of Reviews.
F.R.	Fortnightly Review.
	Labour Gazette.
	Lancet.
	Manchester Statistical Society, Transactions of (to 1918–19).
	The Month's Work.
N.R.	National Review.
	Nature.
N.C.	Nineteenth Century.
	Organiser.
P.Q.	Political Quarterly (discontinued in 1916).
	Progress.
Q.R.	Quarterly Review.
R.T.	Round Table.
	Royal Philosophical Society of Glasgow, Transactions of.
	Royal Society of Arts, Journal of.
	Royal Statistical Society, Journal of.
	Scottish Journal of Agriculture.
	Sociological Review.
	Statist.
	Statistical and Social Inquiry Society of Ireland, Transactions of.
	System.
	Toynbee Record (discontinued after Feb. 1919).
W.I.N.	Women's Industrial News.

I. SOCIAL CONDITIONS

A. POPULATION[1]

¶ *Official Publications :*

Admiralty. Statement of the First Lord of the Admiralty explanatory of the Navy Estimates, 1919–20. 1919, Cmd. 451. 25 pp.

Gives (p. 22) the number of casualties in Navy and Royal Naval Division during the War.

Ireland. Registrar-General, Ireland. Annual Reports on Births, Deaths, and Marriages.—(Report, 1914) 1914–16, Cd. 7991, vol. 9. xlvii + 168 pp. — (Report, 1915) 1916, Cd. 8416, vol. 6. xxxiii + 73 pp.—(Report, 1916) 1917–18, Cd. 8647, vol. 6. xxxiv + 59 pp. —(Report, 1917) 1918, Cd. 9123, vol. 6. xxxv + 59 pp.—(Report, 1918) 1919, Cmd. 450. xxv + 59 pp.—(Report, 1919) 1920, Cmd. 997. xxxvi + 59 pp.

—— *Ibid.* Emigration Statistics of Ireland.—(Statistics for 1914) 1914–16, Cd. 7883, vol. 80. 16 pp. — (*Ibid.*, 1915) 1916, Cd. 8230, vol. 32. 16 pp. — (*Ibid.*, 1916) 1917–18, Cd. 8520, vol. 38. 14 pp.—(*Ibid.*, 1917) 1918, Cd. 9013, vol. 25. 11 pp. — (*Ibid.*, 1918) 1919, Cmd. 77. 11 pp. —(*Ibid.*, 1919) 1920, Cmd. 721. 10 pp.

Give statistics of numbers, ages, occupations, &c., of emigrants.

Registrar-General. Annual Reports of Births, Deaths and Marriages in England and Wales. — (Report, 1914) 1916, Cd. 8206, vol. 5. lxi + 582 pp. — (Report, 1915) 1917–18, Cd. 8484, vol. 5. lxviii + 516 pp. — (Report, 1916) 1917–18, Cd. 8869, vol. 6. xcii + 492 pp. — (Report, 1917) 1919, Cmd. 40. cii + 496 pp.—(Report, 1918) 1920, Cmd. 608. clxxiii + 450 pp. — (Report, 1919) 1920, Cmd. 1017. cviii + 520 pp.

Scotland. Registrar-General. Annual Reports on Births, Deaths, and Marriages in Scotland. — (Report, 1914) 1914–16, Cd. 8160, vol. 6. cxxii + 455 pp. —(Report, 1915) 1916, Cd. 8339, vol. 6. cxxvi + 149 pp.—(Report, 1916) 1918, Cd. 9014, vol. 6. cxxvi + 153 pp. — (Report, 1917) 1919, Cmd. 287. cxxvi + 151 pp. —(Report, 1918) 1920, Cmd. 655. cxxxviii + 461 pp.—(Report, 1919) 1920, Cmd. 980. cxxxiv + 461 pp.

War Office. British Army, General Annual Reports on, for period from Oct. 1, 1913, to Sep. 30, 1919. 1921, Cmd. 1193. (*Vide infra*, p. 388.)

Pp. 62–72. Gives statistics of war casualties annually from Aug. 4, 1914, to Sep. 30, 1919.

¶ *Books and Periodicals :*

Bogart, Ernest L. Direct and Indirect Costs of the Great World War. Carnegie Endowment for International Peace (Division of Economics and History). Preliminary Economic Studies of the War. Edited by David Kinley. Oxford University Press, New York. 1919. vi + 338 pp.

[1] *Vide* also under PUBLIC HEALTH, § I, B, *infra*, pp. 3–26, *passim*.

Discusses (pp. 269–84) statistics of casualties among the belligerent nations, with estimates of capitalized value of loss of life, death-rate among civil population, &c.

Carnegie Endowment for International Peace. Direct and Indirect Costs of the Great World War. *Vide* BOGART, ERNEST L., *supra*.

National Birth Rate Commission. The Declining Birth-rate: Its Causes and Effects. Being the report of, and the chief evidence taken by, the National Birth Rate Commission instituted, with official recognition, by the National Council of Public Morals. Chapman & Hall. 1916. xiv + 450 pp.

Evidence mainly taken before war. No information given as to effect of war conditions.

Scharlieb, Mary. 'National Baby Week,' in *F. R.*, July 1917 (vol. 102), pp. 90–100.

Discusses effect of war on lower middle class and need for State endowment of children to stimulate the birth-rate.

Yule, G. Udney. The Fall of the Birth-rate. Cambridge University Press. 1920. 43 pp.

Discusses birth, marriage and death-rates of England and Wales (before the war). Some reference to changes in birth-rate during war.

B. PUBLIC HEALTH

1. GENERAL

℄ *Acts of Parliament :*

Local Government (Emergency Provisions) Act, 1916. 6 & 7 Geo. V. c. 12.

Part II, s. 5, deals with payment to medical practitioners for notification of infectious diseases and enacts that all cases of infectious diseases in premises occupied by H.M. Forces must be notified. Part II, s. 10, makes regulations as to payment of substitutes for medical officers of health and inspectors of nuisances serving with the forces.

Ministry of Health Act, 1919. 9 & 10 Geo. V. c. 21. 9 pp.

National Health Insurance Act, 1918. 7 & 8 Geo. V. c. 62. 37 pp.

Ibid., 1919. 9 & 10 Geo. V. c. 36. 1 p.

Ibid., 1920. 10 & 11 Geo. V. c. 10. 14 pp.

Nurses Registration Act, 1919. 9 & 10 Geo. V. c. 94. 6 pp.

Nurses Registration (Ireland) Act, 1919. 9 & 10 Geo. V. c. 96. 6 pp.

Nurses Registration (Scotland) Act, 1919. 9 & 10 Geo. V. c. 95. 7 pp.

Public Health (Medical Treatment of Children) (Ireland) Act, 1919. 9 & 10 Geo. V. c. 16. 2 pp.

Public Health (Prevention and Treatment of Disease) (Ireland) Act, 1917. 7 & 8 Geo. V. c. 40. 1 p.

Scottish Board of Health Act, 1919. 9 & 10 Geo. V. c. 20. 7 pp.

℄ *Official Publications :*

Statutory Rules and Orders. (*Vide infra*, p. 85).

Contain public health regulations.

Board of Education. Chief Medical Officer of the Board of Education. Annual Reports.—(Report, 1914) 1914–16, Cd. 8055, vol. 18. viii + 309 pp.—(Report,

1915) 1916, Cd. 8338, vol. 8. viii + 169 pp.—(Report, 1916) 1917–18, Cd. 8746, vol. 11. x + 213 pp. —(Report, 1917) 1918, Cd. 9206, vol. 9. v + 215 pp. — (Report, 1918) 1919, Cmd. 420. vi + 258 pp. — (Report, 1919) 1920, Cmd. 995. iv + 231 pp.

Contain information and statistics *re* the work of school medical officers, extent of physical defects among children and treatment, infant welfare work, provision of meals, &c. Some references to effect of war on children's health.

Commission, Royal. Venereal Diseases, Royal Commission on. 1st Report and Appendix to 1st Report (Minutes of Evidence and Index). 1914, Cd. 7474 and 7475, vol. 49. 4 pp. and 462 pp.—Final Report and Appendix (Minutes of Evidence and Index). 1916, Cd. 8189 and 8190, vol. 16. 191 pp. and 494 pp.

Deals entirely with pre-war conditions. Discusses previous State action, statistics as to prevalence of the disease and its distribution, methods of treating, notification, &c.

Ireland. Irish Public Health Council. Report on the Public Health and Medical Services in Ireland. 1920, Cmd. 761. 26 pp.

Discusses deficiencies in existing services, central and local, and makes recommendations for re-organization and reform.

—— Local Government Board for Ireland. Annual Reports for 1914–15 to 1918–19. (*Vide infra*, p. 95.)

Contain accounts of public health work of local authorities, statistics of cases of infectious diseases, treatment of tuberculosis and venereal disease, maternity and child welfare work.

—— Registrar-General, Ireland. Annual Reports on Births, Deaths, and Marriages. (*Vide supra*, p. 1.)

Contains statistics of number of deaths at different ages, causes of death, &c.

Local Government Board. Annual Reports for 1914–15 to 1916–17, Pts. III. — 1916, Cd. 8197, vol. 12. 127 pp.—1916, Cd. 8332, vol. 13. 27 pp. — 1917–18, Cd. 8697, vol. 16 (pp. 29–52, 59–60).— Reports for 1917–18 and 1918–19, Pts. I.—1918, Cd. 9157, vol. 11 (pp. 6–25, 66–7).—1919, Cmd. 413 (pp. 27–37, 38–79, 152–72). (Sections on Public Health and Local Administration.)

Contain accounts of the public health work of the L.G.B., e. g. treatment of tuberculosis and other infectious diseases (with statistics of number of cases notified), treatment of venereal disease, vaccination, maternity and child welfare work, administration of Sale of Food and Drugs Acts, &c.

—— Annual Reports. Supplements containing the Report of the Medical Officer. — (Report, 1914–15) 1914–16, Cd. 8153, vol. 25. xxxiv + 100 pp. — (Report, 1915–16) 1916, Cd. 8423, vol. 13. xl + 77 pp. — (Report, 1916–17) 1917–18, Cd. 8767, vol. 16. xl + 23 pp. — (Report, 1917–18) 1918, Cd. 9169, vol. 11. lxxviii + 112 pp. —(Report, 1918–19) 1919, Cmd. 462. ix + 207 pp.

Contain information as to outbreaks of infectious disease and measures taken, arrangements for co-operation between civil and military authorities *re* sanitation and control of infectious diseases, with statistics (in reports for 1914–15 and 1915–16) of cases of enteric, &c., among troops and civilians, inspection of food for troops, supply of medical practitioners for the army, maternity and child welfare work, treatment of tuberculosis and venereal disease, &c. Report for 1917–18 contains review of public health events since 1871 and discusses needs of the future. Report for 1918–19 deals largely with diseases associated with war conditions and action taken, especially to prevent infection from demobilized troops.

—— Public Health and Medical Subjects, Reports to the L.G.B.

Local Government Board (*cont.*)

on. H.M.S.O. N. S., Nos. 106, 109, 113, 118, 124. Statistics of the Incidence of Notifiable Infectious Diseases in each sanitary district in England and Wales during the years 1914, 1915, 1916, 1917, 1918. Published in 1915, 1916, &c. (For statistics for 1919 *vide* MINISTRY OF HEALTH, *infra*.)

Give statistics of notifications and attack-rates of notifiable diseases in the different districts and statistics comparing sickness rates with previous years.

—— *Ibid.*, No. 110. Reports on Cerebro-spinal Fever. 1916. 183 pp.—*Ibid.*, No. 114. Further reports on Cerebro-spinal Fever. 1917. 214 pp.

Mainly technical. No. 110 contains report by Dr. R. J. Reece, discussing incidence of the disease among civil population since outbreak of war to June 1915 and giving statistics of distribution, and report of Dr. R. Bruce Low on prevalence in United Kingdom and the world in recent years (almost entirely pre-war). No. 114 (introduction) contains statistics and chart of cases notified to June 1917.

—— *Ibid.*, No. 121. Report of an Enquiry into an Obscure Disease, *Encephalitis Lethargica*. 1918. 74 pp.

Discusses nature of the disease and cause of outbreak (e. g. whether due to war foods, &c.), with negative results.

—— *Ibid.*, No. 120. Further Reports and Papers on Epidemic Poliomyelitis. 1918. 27 pp.

Describes extent of the outbreak, particulars of cases, measures taken, &c. (Outbreak apparently unconnected with war conditions.)

—— *Ibid.*, Nos. 119, 123. Reports and Papers on Malaria contracted in England in 1917 and in 1918. 1918, 1919. 85 pp., 51 pp.

Describe outbreak of the disease among military, naval and civil population, measures taken, prevalence of mosquitoes, &c. No. 123 discusses risks of spread of malaria in relation to demobilization.

—— *Ibid.*, No. 117. The Incidence of Smallpox throughout the world in recent years. By Dr. R. Bruce Low. 1918. 104 pp.

Discusses risk of outbreak of smallpox in United Kingdom owing to war conditions. Gives historical account of the incidence of the disease in various countries, with statistics in some cases up to 1917.

—— Special work of the L.G.B. arising out of the war, Report on. 1914–16, Cd. 7763, vol. 25. (*Vide infra*, p. 377.)

Contains (pp. 30–32) a report on 'public health work of the L.G.B. in relation to the war', describing measures taken for co-operation between local military and civil authorities, medical examination of refugees, &c. Information partly repeated in Report of Medical Officer for 1914–15, *supra*.

—— Venereal Diseases, Prevention and Treatment of. I. Recommendations of the Royal Commission. II. Action taken by the L.G.B. III. Progress made with schemes of treatment. IV. Particulars of certain schemes. 1917–18, Cd. 8509, vol. 38. 4 pp.

Brief account given on above points.

London County Council. Annual Report for 1914, Vol. 3 (Public Health). 155 + x pp.—Reports of the County Medical Officer of Health and School Medical Officer for 1915 to 1918. P. S. King & Son.

Discuss vital statistics, causes of death, incidence of infectious disease and treatment, medical inspection and examination of school children (statistics of defects and conditions as to nutrition, cleanliness and clothing), effect of war on health. Appendix to report for 1918 discusses influenza epidemic.

—— Health Administration in London. Report by the Clerk of

the Council as to the health functions of the various local and other authorities dealing with health matters in London . . . together with a report by the Comptroller of the Council as to the expenditure and sources of income of the various authorities. 82+13 pp. P. S. King & Son.

Gives an account of the health functions of the various authorities, description of their health work and the work of voluntary agencies, and account of expenditure 1916–17. Relates mainly to pre-war period.

Metropolitan Asylums Board. Annual Reports for 1914, &c.

Contain reports and statistics *re* infectious diseases, admissions to asylums, &c.

Ministry of Health. Annual Report [1st], 1919–20. Pt. I. 1920, Cmd. 923. viii+169 pp.

Pp. 1–91 and Appendices, pp. 146–59, deal with public health: treatment of tuberculosis (including arrangements for ex-service men), venereal disease and other infectious diseases, maternity and child welfare work, National Health Insurance, vaccination, supply of doctors, &c.

—— *Ibid.* Pt. IV. Administration of National Health Insurance (1917 to March 31, 1920). 1920, Cmd. 913. 130 pp. (For report for 1914–17 *vide* Nat. Health Ins. Commission, *infra.*)

Contains account of insurance administration in England and in Wales (report of Welsh Board of Health).

—— Chief Medical Officer, Annual Report of, 1919–20. 1920, Cmd. 978. 393 pp.

A full report, giving an account of organization of medical work within the Ministry of Health, co-ordination with other departments concerned with public health, incidence and treatment of infectious diseases, supervision of food supplies, health insurance, maternity and child welfare work, &c. Discusses war-time conditions, e. g. cause of increase of tuberculosis among women during war.

—— Public Health and Medical Subjects, Reports on. No. 2. Incidence of notifiable infectious diseases in each sanitary district in England and Wales during the year 1919. H.M.S.O. 1920. 57 pp.

For contents, *vide* Local Government Board, Reports on Public Health, &c. Nos. 106, &c., *supra*, p. 7.

Ministry of National Service. Physical Examination of men of military age by National Service Medical Boards, from Nov. 1, 1917, to Oct. 31, 1918, Report on, vol. 1. 1919, Cmd. 504. 159 pp.

Discusses in detail the results of examinations made by medical boards in different districts of Great Britain, mainly during period mentioned, as showing standard of health of male population. Gives statistics and charts. Full returns and tables to be given in vol. 2.

Ministry of Reconstruction. Reconstruction Problems. No. 23. Public Health. Pt. I. A Survey. 29 pp. Pt. II. The Present Problem and the Ministry of Health. 14 pp. H.M.S.O. 1919.

Part I. describes evolution of national health service, increased interest in public health questions owing to war conditions and increased overlapping between Government Departments during war. Part II discusses Ministry of Health Bill and the problems facing the Ministry.

National Health Insurance Commission. Medical Research Committee. Annual Reports.—(Report, 1914–15) 1914–16, Cd. 8101, vol. 31. 53 pp.—(Report, 1915–16) 1916, Cd. 8399, vol. 14. 70 pp.—(Report, 1916–17) 1917–18, Cd. 8825, vol. 17. 88 pp.—(Report, 1917–18) 1918, Cd. 8981, vol. 12. 78 pp.—(Report, 1918–19) 1919, Cmd. 412. 90 pp. (For Report, 1919–20, *vide* under Privy Council, *infra.*)

National Health Insurance Commission (*cont.*)

Give particulars of research schemes framed before war and work in connexion with the war (collection of statistics, pathological work at military hospitals, special inquiries *re* antiseptics, typhoid infections, dysentery, &c.).

—— *Ibid.* Interim Report on the work in connexion with the war at present undertaken by the Medical Research Committee. 1914–16, Cd. 7922, vol. 31. 6 pp.

Re compilation of statistics of sick and wounded, work at military hospitals, special inquiries, &c.

—— National Health Insurance Fund Accounts. — (Accounts for 1914) 1917–18, No. 38, vol. 19. 56 pp.—(Accounts for 1915) 1918, No. 29, vol. 15. 36 pp.—(Accounts for 1916) 1919, No. 34. 37 pp. —(Accounts for 1917) 1920, No. 13. 37 pp.

Relate to England, Wales, Scotland and Ireland.

—— National Health Insurance, Report on the administration of, during the years 1914–17. 1917–18, Cd. 8890, vol. 17. 348 pp. (For reports for subsequent years *vide* MINISTRY OF HEALTH, *supra*, and SCOTLAND, National Health Insurance Commission, *infra*.)

Contains reports for England, Scotland, Ireland and Wales. Besides routine work of the Commissioners, refers briefly to war conditions, e. g. arrangements for dealing with tuberculous soldiers and sailors, effect of prevailing industrial conditions in reducing expenditure on sickness benefit, increase in mortality from phthisis.

Privy Council. Medical Research Council. Report for 1919–20. 1920, Cmd. 1088. 104 pp. (For previous Reports of Medical Research Committee *vide* under NATIONAL HEALTH INSURANCE COMMISSION, *supra*.)

Contains accounts of researches in subjects affecting public health and industrial medicine.

Registrar-General. Annual Reports of Births, Deaths and Marriages in England and Wales. (*Vide supra*, p. 1.)

Contain statistics of number of deaths at different ages, causes of death, &c. Discuss effect of war conditions, e. g. increased mortality of old, increased mortality from tuberculosis among women, &c.

—— Supplement to 31st Annual Report of Registrar-General. Report on the Mortality from Influenza in England and Wales during the epidemic of 1918–19. 1920, Cmd. 700. 119 pp.

Reviews total mortality, age distribution among males and females, course of local distribution of epidemic, relation to general health conditions, associated causes of death, &c. With tables and diagrams.

Registry of Friendly Societies. Annual Reports of Chief Registrar. (*Vide infra*, p. 443.)

Parts A (General Reports) contain statistics for United Kingdom of amount of sickness pay disbursed by Friendly Societies and sick and accident benefit by Trade Unions. For comments on the latter *vide* Parts C (Reports on Trade Unions).

Scotland. Board of Health. 1st Annual Report for 1919. 1920, Cmd. 825. 83 pp. Appendix to ditto. Cmd. 992. 30 pp.

Pp. 28–36, 52–83, deal with public health (municipal supply of milk, treatment of tuberculosis and venereal disease, school health administration, maternity and child welfare work, health insurance administration, Highlands and Islands medical service, &c.). Appendix contains circulars issued, &c.

—— *Ibid.* Interim Report of Consultative Council on Medical and Allied Services: a Scheme of Medical Service for Scotland. 1920, Cmd. 1039. 21 pp.

Describes existing services and their deficiencies and makes recommendations for their improvement.

—— Highland and Islands Medical Service Board. Annual Reports.—(Report, 1914) 1914–16, Cd. 7977, vol. 23. 24 pp.—(Report, 1915) 1916, Cd. 8246, vol. 9. 58 pp.—(Report, 1916) 1917–18, Cd. 8519, vol. 14. 32 pp.—(Report, 1917) 1918, Cd. 9060, vol. 10. 30 pp.—(Report, 1918) 1919, Cmd. 169. 36 pp.

Give accounts of arrangements made for medical service in Highlands and Islands. Refer to shortage of doctors and nurses owing to war. Give no information as regards state of health of population.

—— Local Government Board for Scotland. Annual Reports for 1914 to 1919. (*Vide infra*, p. 98).

Contain accounts of public health work of local authorities, treatment of tuberculosis and venereal disease, co-operation between civil and military authorities, maternity and child welfare work, &c.

—— National Health Insurance Commission for Scotland. Hospital and Nursing Service in Scotland, Report on. 1920, Cmd. 699. 98 pp.

Based on an inquiry made in 1917. Describes at some length the existing provision of hospital and nursing services under normal conditions and as affected by war.

—— *Ibid.* National Health Insurance, Report on administration of, in Scotland during the years 1917–19. 1920, Cmd. 827. 86 pp. (For report for years 1914–17 *vide* NATIONAL HEALTH INSURANCE COMMISSION, *supra*.)

Gives history of health insurance in Scotland from 1912 and an account of work done (including arrangements for treatment of tuberculous ex-service men, recruitment of doctors and chemists, &c.). Quotes figures of sickness benefit in respect of Scottish members of societies for 1913–18.

—— Registrar-General. Annual Reports on Births, Deaths, and Marriages in Scotland. (*Vide supra*, p. 2.)

Contain statistics of number of deaths at different ages, causes of death, &c.

—— *Ibid.* Mortality from Influenza in Scotland during the epidemic of 1918–19, Report on. A supplement to the annual reports of the Registrar-General for Scotland. 1919, Cmd. 282. 28 pp.

Discusses statistics of mortality from influenza, generally and in different districts and at different ages; also associated causes of death.

—— Scottish Education Dept. Annual Reports of Committee of Council on Education in Scotland. (*Vide infra*, p. 56.)

Contain very brief references to medical inspection and treatment of school children. (Separate reports on medical inspection not published after 1912–13).

¶ *Books and Periodicals :*

Adami, J. G. 'The Physical Census,' in *Trans. Med. Soc. London*, Nov. 25, 1918 (vol. 42), pp. 24–52 (with discussion).

Discusses health of male population as shown by results of medical examinations of recruits.

Astor, Waldorf. The Health of the People : a New National Policy. Argus Printing Co. 1917. 63 pp.

Gives a detailed and up-to-date account of the health functions of the various central departments and local authorities, showing overlapping, and discusses problem of re-organization.

Burnett, Sir E. Napier. (1) 'Voluntary Hospitals,' in *Brit. Med. Jl.*, May 22, 1920, pp. 710–12. (2) 'The Financial Position of Voluntary Hospitals,' in *Ibid.*, July 17, 1920, pp. 42–3.

(1) Surveys work of voluntary hospitals

of England and Wales (excluding London) in 1919, financial position, scarcity of nurses, &c. (2) Summary of a further report on financial position of voluntary hospitals in Great Britain and Ireland from 1915 to 1919.

Edinburgh Medical Journal, June 1919 (vol. 22), pp. 399–407, and July 1919 (vol. 23), pp. 46–63 (and editorial notes, pp. 1–3).

Contains report of discussion on influenza epidemic at meeting of Edinburgh Medical Chirurgical Society. Largely technical (*re* symptoms, treatment, &c.), but contains some discussion as to real extent of the epidemic and its cause.

James, S. P. Malaria at Home and Abroad. John Bale, Sons, & Danielsson. 1920. xi + 234 pp.

Chapter V, pp. 80–93, describes inquiry made at Sheppey into occurrence of malaria among military and civil population and gives general review (chiefly summarized from Reports to Local Government Board) of locally-contracted malaria in England during 1917 and 1918. Gives (p. 148) figures of deaths from malaria in England 1917–19.

Jessel, Geo. 'Tuberculosis and the War,' in *Public Health,* Aug. 1918 (vol. 31), pp. 124–6.

Refers to increase of tuberculosis owing to war, describes measures taken for dealing with tuberculosis among civilians and ex-service men.

Kerr, Harold. 'The Influence of War Conditions upon the Death Rate from Consumption,' in *Medical Officer,* Oct. 27, 1917 (vol. 18), pp. 145–6.

Gives figures for Newcastle of deaths from tuberculosis and discusses causes of increase of mortality among women during war.

Newsholme, Sir Arthur. 'Discussion on Influenza,' in *Proc. Roy. Soc. Medicine,* Nov. 13, 1918 (vol. 12), pp. 1–102. (Also published separately. Longmans, Green & Co. 1919.)

Discusses course of the epidemic, among civilians and troops, its nature, symptoms and treatment. Largely technical. Touches on question of influence of war conditions, e. g. overcrowding, movement of troops, fuel shortage.

Reece, R. J. 'Notes on the Prevalence of Cerebro-spinal Fever among the Civil Population of England and Wales during the last four months of 1914 and the first six months of 1915,' in *Jl. Roy. Army Med. Corps,* June 1915 (vol. 24), pp. 555–68.

Gives statistics and charts showing number of cases, age distribution, topographical distribution, &c.

¶ *Health Journals :*

British Journal of Tuberculosis. Edited by T. N. Kelynack. Quarterly. 1*s.* 6*d.*

Contains, *passim,* information as to progress of anti-tuberculosis campaign, difficulties of treatment during war, arrangements made for tuberculous ex-service men, &c.

British Medical Journal. Weekly.

Contains much information *re* treatment of wounds and diseases among troops, treatment and training of disabled ex-service men, insurance matters, outbreaks of illness, treatment of venereal disease, maternity and child welfare work, discussion of medical matters in Parliament, &c.

Lancet. Weekly.

Very similar information to that in *British Medical Journal.* Contains monthly statistics, with comments, of sickness and mortality from infectious diseases in London boroughs, weekly summaries of vital statistics of English, Scotch, and Irish towns, reviews of annual reports of Medical Officers of Health, Lunatic Asylums Superintendents, &c.

Local Government Chronicle. Weekly. 3*d.*

This and the *Local Government Journal* (*infra*) contain information with regard to public health and sanitation schemes, child welfare work, &c.

Local Government Journal. Weekly. 2*d.*

Medical Officer. Weekly. 6*d.*

A Journal for medical men in the Government and municipal services. Contains reviews of reports of Medical Officers of Health and Asylum Superintendents, information *re* maternity and child welfare work, schemes for treatment of venereal disease, &c.

Public Health. Monthly. 1*s.* 6*d.*

The official organ of Medical Officers of Health. Contains information *re* co-operation of Medical Officers of Health with military authorities (in supervision of camps, inspection of Army food, &c.), public health regulations, discussions as to characteristics of outbreaks of diseases, bacteriological work, &c.

Surveyor and Municipal and County Engineer. Weekly. 6*d.*

Discusses municipal schemes, e. g. water supply, sanitation, street cleaning, refuse removal, and other questions affecting public health.

2. INDUSTRIAL DISEASES

Vide LABOUR: HOURS, INDUSTRIAL FATIGUE, ETC., and LABOUR: ACCIDENTS AND SICKNESS, §§ V, A, 5, a and b, *infra*, pp. 413–24.

3. LUNACY

¶ *Official Publications :*

Home Office. Board of Control. Annual Reports.—(Report, 1914) Pt. I. 1916, No. 6, vol. 13. vi + 93 pp. Pt. II. H.M.S.O., 1916. —(Report, 1915) Pt. I. 1917–18, No. 25, vol. 16. vi + 70 pp. Pt. II. H.M.S.O., 1917.—(Report, 1916) Pt. I. 1917–18, No. 143, vol. 16. vi + 73 pp. Pt. II. H.M.S.O., 1917. — (Report, 1917) Pt. I. 1918, No. 102, vol. 11. vi + 89 pp. Pt. II. H.M.S.O., 1918.—(Report, 1918) Pt. I. 1919, No. 156. v + 75 pp. Pt. II. H.M.S.O., 1919.—(Report, 1919) Pt. I. 1920, No. 193. v + 105 pp. Pt. II. H.M.S.O., 1920.

Contain accounts of provision made for lunatics and mentally defectives. Give number of admissions of lunatics to asylums and discuss cause of decrease (whether due to war conditions). Parts II contain statistical tables, lists of asylums, &c.

Ireland. Inspectors of Lunatics (Ireland). Annual Reports.—(Report, 1914) 1914–16, Cd. 7990, vol. 26. xliii + 185 pp.—(Reports, 1915 and 1916) 1917–18, Cd. 8454 and 8940, vol. 16. xxxvi + 54 pp., and xxxi + 52 pp.—(Report, 1917) 1919, Cmd. 32. xxx + 49 pp.—(Report, 1918) 1920, Cmd. 579. xxxi + 48 pp.

Contain accounts of provision made for lunatics, state of asylums, expenditure, &c. Statistics as to numbers admitted, discharges, deaths, &c. Discuss effect of war on admissions, with tables giving number of cases in which war is assigned as cause of insanity.

Scotland. General Board of Control for Scotland. Annual Reports.—(Report, 1914) 1914–16, Cd. 7944, vol. 27. lxxxiii + 162 pp.—(Report, 1915) 1916, Cd. 8313, vol. 13. 37 pp.—(Report, 1916) 1917–18, Cd. 8565, vol. 16. 39 pp.—(Report, 1917) 1918, Cd. 9068, vol. 11. 45 pp. —(Report, 1918) 1919, Cmd. 143. 50 pp. — (Report, 1919) 1920, Cmd. 794. xlviii + 46 pp.

Contain accounts of provision made for lunatics and mentally defectives, statistics of admissions to asylums, discharges, deaths, &c. Fourth and subsequent reports contain very brief discussions of causes to which decrease of cases during war is to be attributed.

¶ *Books and Periodicals :*

Emslie, Isabel. 'The War and Psychiatry', in *Edin. Med. Jl.*, May 1915 (N.S., vol. 14), pp. 359–67.

Discusses from experience at Royal Mental Hospital, Edinburgh, whether and to what extent war is causing increase of insanity among civilians.

Jones, Sir Robert Armstrong. 'The Psychology of Fear and the Effects of Panic Fear in War-time,' in *Trans. Med. Soc. London*, Mar. 12, 1917 (vol. 40), pp. 120 *et seq.*

Gives (pp. 137–8) some information, from his experience at Claybury Asylum, as to cases of insanity among civil population associated with war.

Robertson, Geo. M. 'War and Alcohol as exciting Factors in the onset of Insanity,' in *Medical Officer*, June 26, 1915 (vol. 13), pp. 283–4.

Discusses briefly effect of war on insanity, from his experience of patients admitted to Royal Edinburgh Asylum.

Smith, R. Percy. 'Mental Disorders in Civilians, arising in connexion with the War,' in *Proc. Roy. Soc. Medicine*, Oct. 31, 1916 (vol. 10), section on Psychiatry, pp. 1–20.

Discusses extent to which mental disorders and insanity have occurred among civilian population owing to war, and gives particulars of cases.

¶ *Health Journals :*

Lancet and **Medical Officer.** (*Vide supra*, pp. 16, 17.)

Contain reviews of reports of asylum superintendents, in which question of effect of war conditions on insanity is discussed.

4. MATERNITY AND CHILD WELFARE [1]

¶ *Acts of Parliament :*

Maternity and Child Welfare Act, 1918. 8 & 9 Geo. V. c. 29. 2 pp.

Midwives Act, 1918. 8 & 9 Geo. V. c. 43. 4 pp.

Midwives (Ireland) Act, 1918. 7 & 8 Geo. V. c. 59. 11 pp.

Midwives (Scotland) Act, 1915. 5 & 6 Geo. V. c. 91. 10 pp.

Notification of Births (Extension) Act, 1915. 5 & 6 Geo. V. c. 64. 3 pp.

¶ *Official Publications :*

Central Midwives Board. Annual Reports.—(Report, 1914–15) 1914–16, Cd. 8142, vol. 27. 14 pp.—(Report, 1915–16) 1916, Cd. 8408, vol. 13. 18 pp.—(Report, 1916–17) 1917–18, Cd. 8906, vol. 16. 15 pp.—(Report, 1917–18) 1919, Cmd. 17. 13 pp.—(Report, 1918–19). H.M.S.O., 1920. 12 pp.—(Report, 1919–20) 1920, Cmd. 1100. 12 pp.

Deal with training of midwives, examinations, numbers, &c.

Local Government Board. Ma-

[1] *Vide* also under PUBLIC HEALTH : GENERAL, § B, 1, *supra*, pp. 3–18. A classified collection of press cuttings on Infant Welfare during the War has been made by the *Fabian Women's Group*. The subjects dealt with include infantile mortality (causes, &c.), infant welfare campaign and progress of schemes, establishment of maternity welfare centres, crèches for children of munition workers, &c. The collection, which covers the years 1915–17, may be inspected on application to the Secretary of the Fabian Women's Group, 25, Tothill St., Westminster.

ternity and Child Welfare Centres in England and Wales, April, 1919. H.M.S.O. 102 pp.—*Ibid.*, Jan. 1920 (MINISTRY OF HEALTH). 112 pp.

Contain lists of municipal and voluntary centres.

—— Medical Officer of the Board, Supplement in continuation of the Report of, for 1914–15, containing a report on Maternal Mortality in connexion with childbearing. 1914–16, Cd. 8085, vol. 25. 140 pp.

Discusses conditions affecting maternal mortality, public health administration in relation to maternity, &c. Relates to pre-war times. Introduction points out increased importance of infant welfare work owing to war.

—— *Ibid.*, Supplement in continuation of the report of, for 1915–16, containing a report on Child Mortality, at ages 0–5 in England and Wales. 1917–18, Cd. 8496, vol. 16. 116 pp.

Relates to pre-war period. Discusses statistics for 1911–14.

—— Public Health and Medical Subjects, Reports on. N.S., No. 111. Report on the Provision of Midwifery Service in the County of London, by Janet E. Lane-Claypon. H.M.S.O. 1917. 69 pp.

Describes in some detail the existing provision and conditions of midwifery work in London (in-patient and out-patient maternity work, midwifery work in the home by general practitioners and work of independent midwives). Discusses economic position of midwives, giving seven sample budgets of midwives in 1915 and particulars as to income. Gives statistics of number of births attended in 1915 by the various midwifery agencies.

Ministry of Health. Maternity and Child Welfare Centres. *Vide* LOCAL GOVERNMENT BOARD, *supra*.

Ministry of Reconstruction. Reconstruction Problems. No. 33. Child Welfare. H.M.S.O. 1919. 25 pp.

Describes provision made for welfare of infants and children, the new powers acquired by various Government departments during the war and the consequent improvements or mooted improvements in child welfare work.

—— Subsidiary Health and Kindred Services for Women, Memorandum on. 1918. (*Vide infra*, p. 476).

Reviews the position as regards employment of midwives, home helps, health visitors, &c., progress of Maternity and Infant Welfare centres, day nurseries, &c.

National Health Insurance Commission. Medical Research Committee. Special Report Series, No. 10. The Mortalities of Birth, Infancy and Childhood. H.M.S.O. 1917. xvi+84 pp.

A collection of articles. Writers discuss causes of infantile mortality, apart from war conditions. Leonard Findlay (pp. 38–9) discusses briefly suggested relations between increased prosperity during war and infantile death-rate in Scotland.

Scotland. Central Midwives Board for Scotland. Annual Reports.—(Report, 1916–17) 1917–18, Cd. 8616, vol. 16. 6 pp.—(Report, 1917–18) 1918, Cd. 9116, vol. 12. 5 pp.

Deal with training of midwives, examinations, numbers, &c.

¶ *Books and Periodicals :*

Barnes, Annie E. 'The Unmarried Mother and her Child,' in *C. R.*, Nov. 1917 (vol. 112), pp. 556–8.

Discusses urgency of problem owing to dearth of foster mothers, caused partly by higher wages to be earned under war conditions.

Biggar, E. Coey. Report on the Physical Welfare of Mothers and Children. Vol. 4 (Ireland). *Vide* CARNEGIE UNITED KINGDOM TRUST, *infra*.

Campbell, Janet M. Report on the Physical Welfare of Mothers and Children. England and Wales. Vol. 2. *Vide* CARNEGIE UNITED KINGDOM TRUST, *infra*.

Carnegie United Kingdom Trust. Report on the Physical Welfare of Mothers and Children. England and Wales. Vol. 1. By E. W. Hope. xvi + 434 pp.—Vol. 2. By Janet M. Campbell. viii + 190 pp. —Vol. 3 (Scotland). By W. Leslie Mackenzie. xxviii + 632 pp.—Vol. 4 (Ireland). By E. Coey Biggar. xi + 213 pp. Carnegie U.K. Trust, East Port, Dumfermline. 1917.

Based on enquiry made 1916–17. Discusses statistics of infantile mortality (up to 1915) and causes of death, and describes in considerable detail (especially for England) provision made for care of mothers and children. Brief incidental references to war conditions.

Davies, Edward W. 'Bringing up To-morrow's Workers,' in *System*, Aug. 1919 (vol. 36), pp. 127–30.

Discusses crèche system of Messrs. Lyons started during war.

Edinburgh Medical Journal. Child Welfare Numbers, May and June 1917 (vol. 18).

Contain several articles dealing with maternity and child welfare work in Edinburgh (movement stimulated by war).

Hope, E. W. Report on Physical Welfare of Mothers and Children. England and Wales. Vol. 1. *Vide* CARNEGIE UNITED KINGDOM TRUST, *supra*.

Lawson, William. 'Infant Mortality and the Notification of Births Acts, 1907, 1915,' in *Jl. Statistical and Social Inquiry Soc. of Ireland*, Oct. 1919 (Pt. 97, vol. 13), pp. 479–97.

Describes schemes adopted in Dublin, Liverpool, Glasgow and Belfast under the Acts, with an account of the extent to which this has been done. Also discusses report of E. Coey Biggar (*vide supra*) on work done in Dublin, Belfast and Cork.

Mackenzie, W. Leslie. Report on the Physical Welfare of Mothers and Children. Vol. 3 (Scotland). *Vide* CARNEGIE UNITED KINGDOM TRUST, *supra*.

National Association for the Prevention of Infant Mortality and for the Welfare of Infancy (now **National League for Health, Maternity and Child Welfare**). Annual Reports for 1914, &c. 4 and 5 Tavistock Square.

Contain notes on work of the Association, the State and private authorities. As from 1918 include reports on work of the Associations affiliated to the League and reports from homes established.

Palmer, Mabel. Life Saving in War-time. National League for Physical Education and Improvement. C. Arthur Pearson. 1916. xvi + 112 pp.

Discusses fall in birthrate and in rate of infantile mortality in recent years, and causes, showing effects of the war. Reviews legislation affecting infant welfare and work of local authorities and voluntary agencies, giving examples of existing schemes and making recommendations for future work.

Scharlieb, Mary. 'The Nation's Children and our Duty towards them,' in *N. C.*, June 1917 (vol. 81), pp. 1277–89.

Discusses returns from Registrar-General, and reports of Medical Officers of Local Government Board and Board of Education, effect of war on attitude of public towards question of disease, &c.

—— 'The Relation of Alcohol and Alcoholism to Maternity and Child Welfare.'

Vide infra, p. 214.

Stepney, B. J. 'Little Children's Health in War-time: Observa-

tions by a Head Mistress,' in *National Health*, July 1917 (vol. 10), pp. 13–14.

Discusses effect on health of children of war conditions (e. g. better food and clothing, insufficient sleep due to air raids, &c.).

¶ *Health Journal :*

National Health. A Journal of State, Municipal and Voluntary Health Administration. Monthly. 9*d.*

Deals mainly with infant welfare work.

C. HOUSING

¶ *Acts of Parliament :*

Billeting of Civilians Act, 1917. 7 & 8 Geo. V. c. 20. 6 pp.

Courts (Emergency Powers) (No. 2) Act, 1916. 6 & 7 Geo. V. c. 18. 2 pp.

Section 2 gives power to County Court to remove restrictions imposed by Increase of Rent, &c., Act, 1915, with regard to premium on grant, renewal or continuance of lease.

Courts (Emergency Powers) Act, 1917. 7 & 8 Geo. V. c. 25. 4 pp.

Contains provisions with regard to premiums on leases and other amendments of the Increase of Rent, &c., Act, 1915.

Housing Act, 1914. 4 & 5 Geo. V. c. 31. 2 pp.

Housing (No. 2) Act, 1914. 4 & 5 Geo. V. c. 52. 2 pp.

Housing (No. 2) (Amendment) Act, 1914. 4 & 5 Geo. V. c 71. 1 p.

Housing (Rosyth Dockyard) Act, 1915. 5 & 6 Geo. V. c. 49. 1 p.

Housing, Town Planning, &c., Act, 1919. 9 & 10 Geo. V. c. 35. 37 pp.

Housing (Ireland) Act, 1919. 9 & 10 Geo. V. c. 45. 22 pp.

Housing, Town Planning, &c. (Scotland), Act, 1919. 9 & 10 Geo. V. c. 60. 33 pp.

Housing (Additional Powers) Act, 1919. 9 & 10 Geo. V. c. 99. 10 pp.

Housing (Scotland) Act, 1920. 10 & 11 Geo. V. c. 71. 7 pp.

Increase of Rent and Mortgage Interest (War Restrictions) Act, 1915. 5 & 6 Geo. V. c. 97. 6 pp.

Increase of Rent and Mortgage Interest (Restrictions) Act, 1919. 9 Geo. V. c. 7. 5 pp.

Increase of Rent, &c., (Amendment) Act, 1919. 9 & 10 Geo. V. c. 90. 2 pp.

Increase of Rent and Mortgage Interest (Restrictions) Act, 1920. 10 & 11 Geo. V. c. 17. 20 pp.

Public Works Loan Act, 1920. 10 & 11 Geo. V. c. 61. 4 pp.

Section 5 provides for temporary advances from Local Loans Fund to local authorities for housing purposes.

¶ *Official Publications :*

Manuals of Emergency Legislation. Defence of the Realm Manual, revised to July 28, 1916. (*Vide infra*, p. 84.)

Contains Orders with regard to building without a licence.

—— *Ibid.* 5th ed., revised to Feb. 28, 1918.

Contains Orders by Director-General of National Service with regard to building restrictions.

Statutory Rules and Orders, 1916, &c. (*Vide infra*, p. 85.)

Contain rules made under Billeting of Civilians Act, and Increase of Rent, &c., Acts.

Board of Agriculture. Wages and Conditions of Employment in Agriculture. (*Vide infra*, p. 463.)

Vol. 1, Part I, Section 5 (pp. 134–61), and Part II (pp. 197–200), deals with cottage accommodation and rents in England and Wales respectively. Discusses condition of cottages, supply and demand, rents, cost of building, &c. Vol. 2 (Reports of Investigators) contains, *passim*, information on same subject.

Board of Trade. Profiteering Acts. Building Materials, Reports of Sub-Committee on. (1) Report on Brick Trade. 1920, Cmd. 959. 6 pp. (2) Report on Timber. 1920, Cmd. 985. 9 pp. (3) Report on Cement and Mortar. 1920, Cmd. 1091. 19 pp.

Give account of Government control, existence of combinations, prices compared with pre-war level. Discuss cause of rise in prices and reasonableness of profits.

—— *Labour Gazette.*

Contains periodically returns for the quarter giving estimated value of buildings for which plans have been passed in different districts.

—— *Ibid.*, Nov. 1916 (vol. 24), p. 405. 'The Building Industry during the War.'

Sketches course of events and gives statistics as to building plans for the first quarters of the years 1913–16.

—— *Ibid.*, Feb. 1918 (vol. 26), p. 50. 'Building Plans during the War.'

Gives figures for 1911–17.

—— *Ibid.*, Oct. 1920 (vol. 28), p. 542. 'Recent Increases in Rents.'

Discusses permissible increase of rent since Act of 1920, and extent to which rents have actually been increased.

—— *Ibid.*, Nov., Dec., 1920, pp. 595–6, 666–7. 'Unemployment—Remedial Measures.'

Vide infra, pp. 520–1.

Commissions, Royal. Housing of the Industrial Population of Scotland, Royal Commission on. *Vide* under SCOTLAND, *infra.*

—— Income Tax, Royal Commission on. Sixth Instalment of Minutes of Evidence. 1919, Cmd. 288–6.

Q. 20754 (evidence of Ernest J. Churchman) gives figures showing cost of building materials (15 items) and labour in Aug. 1914, March 1918, and Nov. 1919 in Manchester.

—— Industrial Unrest, Commission of Enquiry into, 1917. (*Vide infra*, p. 425.)

Reports contain references to housing conditions as cause of unrest. See especially *Report of the Commissioner for the North Western Area*, which contains (pp. 31–4) an account of housing conditions at Barrow-in-Furness.

Committees. Rental of small dwelling-houses in industrial districts in Scotland, alleged recent increases in, Committee on. *Vide* under SCOTLAND, *infra.*

Ireland. Irish Convention. Report of Proceedings. 1918, Cd. 9019, vol. 10. 176 pp.

Appendix XVI (pp. 136–9), Report of Housing Committee. Estimates extent of housing shortage in urban areas and discusses question of Government financial assistance. Gives figures of number of houses closed by Corporation and new houses built in Dublin since report of Departmental Committee in 1914.

—— Local Government Board for Ireland. Annual Reports for years 1914–15 to 1918–19. (*Vide infra*, p. 95.)

Contain information *re* provision of cottages in Ireland under Labourers' Acts and loans sanctioned under Housing of the Working Classes Acts.

—— *Ibid.* Housing of the Working Classes in Ireland. Plans for the lay-out of typical sites and for various types of houses, in-

cluding a selection from the plans submitted in the architectural competition . . . carried out by the Royal Institute of the Architects for Ireland. H.M.S.O. 1920. 10 pp. and plates.

Makes general remarks on the types of houses desirable and criticizes the plans.

Local Government Board. Annual Reports. Sections on Housing and Town Planning.—(Report, 1914–15, Pt. II) 1916, Cd. 8196, vol. 12. 42 pp.—(Report, 1915–16, Pt. II) 1916, Cd. 8309, vol. 13. 19 pp. — (Report, 1916–17, pp. 23–8, i. e. Pt. II) 1917–18, Cd. 8697, vol. 16.—(Report, 1917–18, pp. 26–35) 1918, Cd. 9157, vol. 11. —(Report, 1918–19, pp. 80–8, and 173–89) 1919, Cmd. 413. (For report for 1919–20, *vide* MINISTRY OF HEALTH, *infra*.)

Contain information as to housing and town planning schemes, loans sanctioned, steps taken to deal with post-war situation, &c., and (Report 1918–19) list of circulars dealing with housing.

—— Building Byelaws, Departmental Committee on. Report and Minutes of Evidence with Index. 1918, Cd. 9213, 9214, vol. 7. 52 pp., 335 pp.

Describes present legal system as regards bye-laws, effect of existing bye-laws on building and development, &c., and makes recommendations for amendment of the law. (Committee appointed before war.)

—— Building Construction, Report of Committee appointed by President of the L.G.B. and Secretary for Scotland to consider questions of, in connexion with the provision of dwellings for the working classes in England and Wales and Scotland, and to report upon methods of securing economy and dispatch in the provision of such dwellings. 1918, Cd. 9191, vol. 7. 97 pp.

Gives estimates of number of houses required and discusses steps to be taken (e. g. simplification of procedure) and questions of site and construction. Touches on methods of contract adopted and difficulties in the way of building operations during the war.

—— Houses for the Working Classes, Memorandum for the use of Local Authorities with respect to the Provision and Arrangement of. H.M.S.O. 1917. 7 pp.

Deals with questions of type of house, selection of site, arrangement of streets and buildings, accommodation to be provided, materials, &c.

—— Housing, Town Planning, &c., Act, 1909, Memorandum (No. 4) of the L.G.B. relative to the operation of. 1914–16, Cd. 7760, vol. 54. 11 pp.

Relates mainly to pre-war period. Gives statement of loans sanctioned for provision of houses up to Dec. 31, 1914, and the position as regards town planning schemes at that date.

—— (later **Ministry of Health**). Schemes submitted by Local Authorities and Public Utility Societies. 1919, Cmd. 115, 159, 217, 285, 337, 355, 397, 446; 1920, Cmd. 510, 542, 596, 649, 686, 728, 809, 883, 938, 979.

Give particulars of schemes submitted up to Mar. 31, 1919, and monthly to Aug. 28, 1920.

London County Council. Annual Report for 1914. Vol. 3. Public Health. (*Vide supra*, p. 8).

Pp. 149–55. Deals with housing of working classes, work of the London County Council in connexion with housing, income and expenditure, financial results, &c.

—— County Medical Officer of Health and School Medical Officer, Reports of, for the years 1915 to 1918. P. S. King & Son.

Contain brief accounts of action taken by the Borough Councils (number of closing orders issued and number of houses demolished).

London County Council (*cont.*)

—— Housing of the Working Classes Committee, Reports of, on Housing after the War. P. S. King & Son. 1919. 55 pp.

Reports are extracts from Minutes of L.C.C. of July 23 and Oct. 9, 1918, and June 3, 1919. Discuss position as to housing accommodation in London before the war and effect of the war on population and accommodation, with statistics of number of rooms built and demolished up to 1916 (including Government hutments), number of empty houses, average rent for new working-class tenements, and rates (up to 1917–18). Report of June 1919 gives programme for new work required.

Ministry of Health. Annual Report [First], 1919–20. Pt. II. Housing and Town Planning. 1920, Cmd. 917. 56 pp.

Gives an account of the action taken by the Ministry, difficulties encountered and arrangements made, estimated number of houses required, schemes submitted, &c.

—— Houses completed under the Housing Acts in England and Wales on Nov. 1, 1920, Statement as to. 1920, Cmd. 1023. 1 p.

Statement as to number of houses built, number under construction, &c., and amount raised by means of Housing Bonds.

—— Increase of Rent and Mortgage Interest (War Restrictions) Acts, Report of Committee on. 1920, Cmd. 658. 14 pp. Minutes of Evidence and Index. H.M.S.O. 1920. 158 pp. (*Vide* also under MINISTRY OF RECONSTRUCTION, *infra.*)

Discusses points on which amendments of the Acts are needed and makes recommendations as to their continuance.

—— Powers and Duties of Local Authorities. H.M.S.O. 1919. 28 pp.

States powers and duties under Housing Acts and especially Act of 1919.

—— Prices of Principal Building Materials (London), Changes in. 1920, Cmd. 509. 1 p. *Ibid.*, revised up to Feb. 1920. 1920, Cmd. 611. 1 p.

Gives prices of principal building materials at various dates compared with July 1914.

—— Schemes submitted by Local Authorities, &c. *Vide* under LOC. GOVT. BD., *supra.*

—— Unfit Houses and Unhealthy Areas, Manual on. Vol. 1. Policy and Practice. Vol. 2. Legal powers and duties of local authorities. H.M.S.O. 1919. 92 pp.

Vol. 1 deals with policy to be adopted. Vol. 2 contains summary of principal statutory provisions with regard to unfit houses and unhealthy areas, suggestions as to procedure, and copies of various circulars, forms and orders.

—— *Housing.* Fortnightly. 3*d.* Illustrated. (1st issue July 1919.)

Articles on Housing Acts, Public Utility Societies, garden suburbs, methods of building, &c., lists of applications from local authorities *re* housing schemes, lists of articles in periodicals and Government publications on housing.

Ministry of Labour. Building trades, Correspondence *re* admission of ex-service men into. 1920, Cmd. 1096.

Vide infra, p. 520.

—— *Labour Gazette.* *Vide* under BOARD OF TRADE, *supra.*

Ministry of Munitions. Health of Munition Workers Committee. Final Report. (*Vide infra*, p. 417.)

Contains (pp. 114–16) brief account of steps taken by Ministry of Munitions and Billeting Board to provide accommodation for munition workers. Appendix F (pp. 166–75), 'Hostel Planning and Equipment', contains incidental information as to existing conditions in hostels.

Ministry of Reconstruction. Advisory Housing Panel, Memorandum by, on the Emergency

Problem. 1918, Cd. 9087, vol. 26. 15 pp.

Quotes estimates as to the shortage of houses at the end of the war and additional number needed in rural districts, discusses the question of the provision of houses after the war by local authorities, &c., and outlines scheme for State financial assistance.

—— Building Industry after the War, Report of Committee on. (Building Materials Supply Committee). 1918, Cd. 9197, vol. 7. 13 pp.

Deals almost entirely with probable position after the war. Recommends establishment of Central Building Industry Committee to determine all matters relating to production and allocation of materials.

—— Housing (Financial Assistance) Committee. Interim Report on Public Utility Societies, and Final Report. 1918, Cd. 9223, 9238, vol. 10. 16 pp., 19 pp.

Interim Report sums up briefly present housing position, describes operations of Public Utility Societies and discusses financial assistance to be given. Final Report discusses question of financial assistance to other bodies and persons.

—— Increase of Rent and Mortgage Interest (War Restrictions) Acts, Report of Committee on. 1918, Cd. 9235, vol. 13. 17 pp. (*Vide* also under MINISTRY OF HEALTH, *supra*.)

Sketches circumstances leading up to Act of 1915 and forecasts position if the Act were allowed to expire, summarizes evidence taken from mortgagees, house owners, builders and tenants, and makes recommendations as to continuance of restrictions.

—— Reconstruction Problems. No. 2. Housing in England and Wales. H.M.S.O. 1918. 22 pp.

Describes position as regards housing before the war and effect of the war, and discusses post-war policy.

—— *Ibid.*, No. 4. Housing in Scotland. H.M.S.O. 1918. 21 pp.

Describes briefly effect of the war and the existing shortage of houses, and discusses future policy.

—— *Ibid.*, No. 25. Town Planning. H.M.S.O. 1919. 17 pp.

Gives historical account of town planning, the provisions of the Act of 1909 and modifications of procedure to be introduced by the Act of 1919, and urges necessity for the immediate preparation of town planning schemes.

—— Women's Housing Sub-Committee [of Advisory Council]. First Interim and Final Reports. 1918, Cd. 9166, 9232, vol. 10. 7 pp., 21 pp.

First Report contains general recommendations with regard to the construction of houses in urban districts from housewife's point of view. Final Report makes further recommendations for urban and rural districts and discusses special housing conditions in Wales.

Registry of Friendly Societies. Annual Reports of Chief Registrar. (*Vide infra*, p. 443.) Parts B. Industrial and Provident Societies. Parts D. Building Societies.

Parts B contain, *passim*, information as to Land and Housing Societies. Parts D contain particulars as to number of Building Societies, membership, financial position, &c.

Scotland. Board of Agriculture. Employment of Women in Agriculture in Scotland, Report of Committee on. 1920. (*Vide infra*, p. 491.)

Discusses, *passim*, rural housing conditions in Scotland.

—— *Ibid. Scottish Jl. Agric.*, Jan., 1918 (vol. 1), pp. 41–6. 'Rural Housing.'

Discusses recommendations of Royal Commission on Housing in Scotland.

—— Board of Health. 1st Annual Report for 1919. 1920, Cmd. 825. 83 pp.—Appendix to Report. Cmd. 992. 30 pp.

Report (pp. 8–28) deals with housing (progress of schemes, action taken by

Scotland (*cont.*)

Board, &c.). Appendix I (p. 3) gives estimated cost of different types of houses for which tenders have been approved by the Board.

—— *Ibid.* The Local Authorities' (Assisted Housing Schemes) Regulations (Scotland), 1919. 1919, No. 240. 8 pp.

—— Commission, Royal, on Housing of the Industrial Population of Scotland, Rural and Urban, Report of. 1917–18, Cd. 8731, vol. 14. xviii + 460 pp.

Gives estimate of existing shortage of houses, enumerates existing housing authorities and their powers, describes in detail housing conditions in rural and urban districts, discusses system of land tenure in relation to housing, work of Building, Public Utility and Co-partnership Societies, bad housing as factor in industrial unrest, &c. Recommendations made as to future policy (Majority and Minority Reports). Information relates largely to pre-war position.

—— *Ibid.* Special Report with relative specifications and plans prepared by Mr. John Wilson, Architectural Inspector for the L.G.B. for Scotland, on the design, construction, and materials of various types of small dwelling-houses in Scotland. 1917–18, Cd. 9760, vol. 14. 44 pp.

This Report is part of the Appendices to the Evidence (not yet published) before Royal Commission on Housing. Gives particulars as to design and type of houses required, increase in cost of building compared with July 1914, rent to be charged, &c., with detailed specifications and plans.

—— Committee on alleged recent increases in the Rental of small Dwelling-houses in industrial districts in Scotland. Report and Minutes of Evidence with Appendices and Index. 1914–16, Cd. 8111, 8154, vol. 35. 8 pp., 105 pp.

Describes housing position in Glasgow before the war and the effects of the war, influx of munition workers and increases of rent, &c., and discusses reasons assigned for increases and minor causes of friction. Describes also very briefly the situation in Dundee and Aberdeen. Appendices contain statistics as to rents, rates, unoccupied houses, &c., before and during the war.

—— Local Government Board for Scotland. Annual Reports for the years 1914 to 1919. (*Vide infra*, p. 98.)

Contain short sections on Housing and Town Planning, giving information as to housing and town planning schemes, provision of housing accommodation for war workers, figures as to shortage of houses (Report, 1917), &c.

Treasury. Housing Act, 1914, Account showing money issued out of Consolidated Fund, money borrowed and expenditure of a capital nature incurred by L.G.B., L.G.B. for Scotland, and Commissioners of Works respectively under, for 1914–15; with Report of Comptroller and Auditor-General. 1914–16, No. 354, vol. 54. 3 pp. — *Ibid.* for 1915–16. 1916, No. 149, vol. 17. 4 pp.—*Ibid.* for 1916–17. 1917–18, No. 179, vol. 19. 4 pp. — *Ibid.* for 1917–18. 1919, No. 8. 4 pp. — *Ibid.* for 1918–19. 1920, No. 9. 4 pp.

Give statements of capital expenditure on Woolwich and Rosyth Housing schemes.

—— Housing Finance, Interim Report of Committee on. 1919, Cmd. 444. 7 pp.

Discusses systems of borrowing to be adopted by local authorities for carrying out housing schemes.

¶ *Books and Periodicals :*

Aldridge, Henry R. The Case for Town Planning. National Housing and Town Planning Council. 1917. 679 pp. Illustrated.

Part I deals with history of town

planning. Part II (pp. 185–455) deals with powers and duties of local authorities, the stages in the preparation of a town planning scheme, cost of building, growth of garden suburb movement, &c. Appendix (pp. 455–643) gives text of some town planning schemes, regulations, &c.

—— Memorandum on a National Policy in regard to the Closing of Unfit Houses, the Clearance of Slums, the Suppression of Over-crowding, and the Re-housing of the Poor. National Housing and Town Planning Council. 1917. 21 pp.

Draws lessons from the past, states various problems of housing and sketches policies for dealing with them.

—— Housing at the Close of the War. London Christian Social Union. 1918. 15 pp.

Discusses extent of shortage and of demand, action taken by Government to meet the position, points to be secured in a good housing scheme, value of municipal housing action, &c.

—— and **Shawcross, Harold.** *Vide* SHAWCROSS, HAROLD, *infra.*

Allen, Ernest G. *Vide* THOMPSON, F. LONGSTRETH, *infra.*

Architects' Compendium for 1914, &c. The Compendium Publishing Co.

Contain current price lists of building materials and wages in the building trade, summary of legal decisions for past year, register of architects, builders and contractors in Great Britain, &c.

Astor, Lord. 'Agricultural Housing and Rent of Houses,' in *Jl. Bd. Agric.*, Mar. 1920 (vol. 26), pp. 1212–19. (An address to the Agricultural Club.)

Discusses number of houses required in rural districts, steps being taken by Ministry of Health, cost, rents to be charged, &c.

Atkinson, J. W. C. The Housing Problem: with special reference to Mr. E. J. Smith's Bradford Scheme. Percy Lund, Humphries & Co. 1918. 48 pp.

Severely criticizes Mr. Smith's pronouncements on housing (*vide infra*) and advocates amendment of building regulations with a view to stimulating private enterprise in housing.

Auctioneers' and Estate Agents' Institute. The Housing Problem. Feb. 1918. 80 pp.

Contains report of a deputation to L.G.B., and reports from localities, with regard to extent of shortage, causes and steps to be taken, &c.

Bosanquet, Helen. 'Housing Conditions in London,' in *Econ. Jl.*, Sep. 1917 (vol. 27), pp. 330–45.

Gives an account of an investigation made by the Charity Organisation Society in 1916 into the question of rents, overcrowding, insanitary conditions, &c.

Cadbury, George, jun. Town Planning: with special reference to the Birmingham Schemes. Longmans, Green & Co. 1915. xvi + 201 pp. Illustrated.

Discusses the need for town planning, questions of roads, sites, public health and social considerations, &c. Describes steps taken in Birmingham and district.

Charity Organisation Review May 1916 (vol. 39), pp. 217–19; July and Nov. 1916 (vol. 40), pp. 1–3, 179–82; Feb. 1917 (vol. 41), pp. 45–6.

Comments on reports received from District C.O.S. Committees engaged on an inquiry into housing conditions in London.

Clarke, John J. The Housing Problem. With an introduction by G. Kyffin-Taylor. Sir Isaac Pitman & Sons. 1920. 544 pp.

Gives an account of housing legislation and schemes and housing conditions before the war, and discusses future policy, Housing Act of 1919, &c. Refers incidentally to war conditions, e. g. effect of Rent Restriction Acts on supply of houses, increased cost of building, &c.

Coleman, Thomas E. New Standard Building Prices. E. & F. N. Spon. 1919. 44 pp.

Gives statistics of ratios of cost of labour and materials for each of the principal trades in building industry, with average rates of wages at various dates from 1912 to 1919, estimated increase in cost of labour allowing for diminished efficiency, detailed list of wholesale trade prices of building materials (Aug. 1914 and June 1919), &c.

Committee, Joint, on Labour Problems after the War. A Million New Houses after the War. Labour Party. 1917. 8 pp.

Discusses shortage of houses and the causes, states what the Government ought immediately to do and estimates the cost.

Cooper, T. M., and **Whyte, W. E.** The Law of Housing and Town Planning in Scotland. William Hodge & Co., Edinburgh and Glasgow. 1920. xxii + 506 pp.

Sketches history of housing legislation, describes legal methods of acquisition of land for housing, and codifies statutes relating to Scottish housing. Appendix contains text of circulars, memoranda, &c., issued by the L.G.B.

Dowdall, Harold Challoner. Local Development Law : A Survey of the Powers of Local Authorities in regard to housing, roads, land and buildings and town planning. T. Fisher Unwin. 1919. 230 pp.

Ellis, Clough Williams. 'The Modern Cottage : Experiments in *Pisé* at Amesbury,' in *Jl. Bd. Agric.*, Sep. 1920 (vol. 27), pp. 529–34.

Describes, with illustrations, cottages erected by Ministry of Agriculture at Amesbury colony for ex-service men.

Fabian Society. Housing. *Vide* LLOYD, C. M., *infra.*

Furniss, A. D. Sanderson, and **Phillips, Marion.** The Working Woman's House. Swarthmore Press. 1919. 84 pp.

Discusses improvements in working-class homes, co-operative house-management, &c., and new Housing Act in the light of women's needs.

Garton Foundation. The Industrial Council for the Building Industry.[1]

Vide infra, p. 438.

Hamilton, F. G. 'Village Women and Cottage Housing,' in *E. W.*, June 1918 (vol. 37), pp. 141–4.

Describes formation and work of Women's Village Councils Federation (formed to assist State-aided housing schemes).

Hartley, Jas., and **Winstanley, Albert.** The Housing Problem. 2nd ed. British Pictorial Press Co., Ashton-on-Ribble, Preston. 1919. 152 pp.

Discusses shortage of working-class houses and causes, proposals to remedy the shortage, standardization of houses, &c.

Head, J. G. 'The Effect of War Conditions upon the Property Market,' in *Trans. Surv. Inst.*, Ap. 16, 1917 (vol. 49), pp. 173–214 (with discussion).

Discusses, from information obtained from surveyors, auction marts, &c., effect of war on property (e. g. number of sales of houses, lettings, course of rentals and interest on mortgages).

Holland, Bernard. 'Municipal Housing,' in *Ed. R.*, Oct. 1919 (vol. 230), pp. 309–25.

Describes position before and during war and discusses Housing Act, 1919.

Hughes, R. Rowland. Housing and Town Planning : The Situation To-day and how to meet it. Address to the Prenton Literary Society, Birkenhead. Feb. 13, 1917. Chas Birchall, Liverpool, printers. 32 pp.

[1] For further references on Industrial Council for building trades, *vide infra*, pp. 438, 440.

Discusses causes of shortage and steps to be taken for re-establishment of private enterprise, need for speeding up procedure with regard to town planning schemes, &c

Hunt, Frank. 'Some Aspects of the Housing Problem,' in *Auctioneers' and Estate Agents' Institute, Annual Record*, vol. 9, pt. V., pp. 101–34 (with discussion).

Discusses extent of shortage and causes, the Housing Act of 1919, problems to be faced, &c.

Hutton, J. E. Welfare and Housing: A Practical Record of War-time Management. Longmans, Green & Co. 1918. 192 pp.

Chapters III and IV (pp. 26–51) describe steps taken by Messrs. Vickers to provide housing accommodation for their employees during the war.

Labour Year Book, 1919, pp. 207–18. 'Housing. I. Before and during the War. II. After the War.'

Gives an account of housing legislation, arrangements made by Ministry of Munitions for housing munition workers and by L.G.B. for Scotland (housing at Rosyth, &c.), and administration of the Billeting of Civilians Act.

Land and House Property Year Book for 1914, &c.

Gives list of auction sales, with prices realized, of London and suburban properties, country properties, ground rents, &c., and statistics of total sales by auction, for a series of years.

Leppington, C. H. d'E. 'Middle-class Housing in London,' in *C.O.R.*, Aug. 1919 (vol. 46), pp. 32–8.

Examines the prices of properties and the rents of houses and flats in Greater London during last year of war, as evidenced by advertisement columns of daily Press.

Lewis, David (Sec. Cheltenham and Gloucestershire Building Soc.). The Housing Question and Building Societies. Paper read at annual meeting of the Building Societies' Association, May 24, 1918. 24 pp.

Discusses causes of shortage, suggests measures for restoring public confidence in house property and use to be made of building societies, giving some figures showing financial position of the latter during the war.

Lloyd, C. M. Housing. Fabian Tract, No. 193. Fabian Society. 1920. 24 pp.

Sketches housing legislation up to Act of 1919, discusses causes for lack of building since the Act and describes powers of local authorities.

Local Government Journal, Editor of. Housing and Town Planning, &c., Acts. *Local Government Journal.* 1919. 220 pp.

Gives list of Housing Acts, 1890–1919, with notes, and regulations, forms of contract, &c., issued by the Ministry of Health under the Act of 1919.

Malcolmson, V. A. Rural Housing and Public Utility Societies. John Murray. 1919. 6 pp.

Explains scope allowed by the Act of 1919 to Public Utility Societies, and gives plans of cottages and estimates of cost of building them.

Mould, Graham. Memorandum on the Increase of Rent and Mortgage Interest (Restrictions) Act, 1920. *Auctioneers' and Estate Agents' Institute, Annual Record*, vol. 10, pt. II. 1920. 78 pp.

Gives the Act, with summary of provisions and notes, quoting decisions of Courts.

—— and **Pocock, Sydney E.** 'The Increase of Rent and Mortgage Interest (War Restrictions) Act, 1915, &c.' *Auctioneers' and Estate Agents' Institute, Annual Record*, vol. 9, pt. I. 1919. 22 pp.

A memorandum summarizing provisions of the Acts of 1915, 1918 and 1919, and quoting decisions of Courts under them.

Municipal Year Book, 1920–21. *Municipal Journal.*

Section 16 (pp. 491–501) deals with Housing. Discusses position as regards housing and financial assistance given by Government during war and after Armistice, the Housing Acts of 1919, actions of local authorities resulting from the Acts, and the position in April 1920. Gives lists of local authorities with number of houses completed by them and number of houses required up to May 1920.

National Housing and Town Planning Council. National Congress to consider Home Problems after the War. 1916. 46 pp.

Deals with the necessity for the preparation of housing schemes, adequate financial help from Government, &c.

—— Housing and Town Planning after the War. Report of a Deputation received . . . Sep. 20, 1916, at the L.G.B. by the Rt. Hon. Walter H. Long. 1916. 23 pp.

Deals with the necessity of making adequate preparation for the housing of the working classes after the war.

—— Reports and Papers. No. 15, Series B. (a) Memorandum and Resolutions submitted to the Minister of Health by a deputation received on Nov. 5, 1919, from a joint meeting of Committees of the National Council. (b) Report of the deputation proceedings and the reply of Dr. Addison. 1919. 23 pp.

Deals with causes of delay in starting to build cottages, methods for securing more rapid progress, possibilities of future delays owing to shortage of materials and labour, and the financing of housing schemes.

New Townsmen. New Towns after the War: An Argument for Garden Cities. J. M. Dent & Sons. 1918. 84 pp.

Pleads for development of town planning on garden city lines.

Phillips, Marion. *Vide* FURNISS, A. D. SANDERSON, *supra.*

Pocock, Sydney E. *Vide* MOULD, GRAHAM, *supra.*

Reason, Will. Homes and Housing. Congregational Union of England and Wales. 1918. 76 pp.

Discusses estimates of shortage, kind of houses required, steps to be taken, &c.

Reiss, Richard. The Home I Want. 2nd ed. Hodder & Stoughton. 1920. xiii + 197 pp. Bibliography.

Surveys the problem of housing, discusses the essentials of a good house and its surroundings, agencies by which new houses can be built, rural housing and town planning. Appendices include list of schemes carried out by Public Utility Societies and war housing schemes carried out by Government.

Robertson, John. Housing and the Public Health. English Public Health Series. Edited by Sir Malcolm Morris. Cassell & Co. 1919. 159 pp.

Discusses influence of housing on health, requirements for a healthy dwelling, present shortage and remedy proposed, &c. Refers to recent investigation into housing of discharged tuberculous soldiers in Birmingham as illustrating shortage.

Rowntree, B. Seebohm. 'The Urban Housing Problem,' in *C.R.*, Oct. 1914 (vol. 106), pp. 526–36.

Deals mainly with pre-war position.

—— 'Housing after the War,' in *Jl. Roy. Soc. Arts*, Dec. 20, 1918 (vol. 67), pp. 65–77.

Discusses the shortage of houses before the war, the effect of the war, and future policy as regards housing.

Royal Institute of British Architects. Housing of the Working Classes in England and Wales: Cottage designs. 1918. 119 pp.

Gives designs awarded premiums in competitions conducted by R.I.B.A. with concurrence of L.G.B.

Savage, William D. Rural

Housing. New enlarged ed. T. Fisher Unwin. 1919. x + 297 pp.

Describes pre-war conditions (as in 1st ed. 1914), but contains prefatory chapter (pp. 2–8) on 'Rural Housing after the War', discussing the effect of the war on cottage building and repair in several areas, criticizing returns made by local authorities as to number of houses required and discussing Government proposals for dealing with the question.

Shawcross, Harold. Suggestions for a New Housing Policy. National Housing and Town Planning Council. 1916. 16 pp.

Memorandum submitted to National Congress on Home Problems after the War (*vide supra*, p. 43). Discusses causes of shortage of houses and makes suggestions with regard to co-operation of local authorities with private enterprise and the development of a national housing policy.

—— and **Aldridge, Henry R.** Public Utility Societies and their Work. National Housing and Town Planning Council. 1917. 14 pp.

Gives an account of the development of Public Utility Societies (before war) and scope and character of their work, with memorandum by W. M. Gaunt on necessary reforms of the conditions under which money is lent to the societies by Public Works Loan Commissioners.

—— Memorandum relative to the Conditions under which Financial Aid is to be given to Local Authorities for the purposes of carrying into effect approved Housing Schemes at the close of the War. National Housing and Town Planning Council. Reports and Papers, No. 5, Series B. 1918. 16 pp.

Gives tables setting out the financial effects of the Government proposals for provision of urban and rural cottages and suggests methods of valuation.

Shelton, A. W. Housing: Facts and Factors for Trade Unionists and Workers. Reprinted from 73rd Quarterly Report of General Federation of Trade Unions. Co-operative Printing Society. 3rd ed. 1917. 12 pp.

Discusses causes of shortage, present position as regards cost of building and rents to be charged, &c.

—— 'The Housing of the People,' in *Trans. Manchester Statistical Society*, 1918–19, pp. 1–32.

Discusses causes and extent of shortage and methods of dealing with the problem. Gives figures obtained by writer from 70 large towns showing decrease in number of houses built before war.

Smith, E. J. Housing: The Present Opportunity. P. S. King & Son. 1918. 98 pp.

Addresses on housing reform given to the Bradford City Council, &c., in 1917–18. Answers criticisms of J. W. C. Atkinson (*vide supra*).

Spensley, J. Calvert. 'Urban Housing Problems,' in *Jl. Roy. Stat. Soc.*, March 1918 (vol. 81), pp. 161–228.

Deals with London only. Discusses the present position (decline in rate of building, &c.), forecast of requirements, factors affecting supply of houses (rent, rates, transit, &c.), means of supply, and provision of houses after the war.

Stalker, Archibald. Summary of the Report by the Royal Commission on Housing in Scotland. With foreword by Sir George M'Crae, Vice-President of the L.G.B. for Scotland. W. R. Chambers, Edinburgh. 1918. 78 pp.

Gives summary of the Majority and Minority Reports.

Thompson, F. Longstreth, and **Allen, Ernest G.** The Town Plan and the House. Garden Cities and Town Planning Association, 1917. 41 pp.

Urges need for proceeding at once with preparation of town planning schemes. Discusses briefly methods of

Thompson, F. Longstreth, and Allen, Ernest G. (*cont.*)

town planning and of building suitable homes for newly planned areas.

—— 'The Future of Housing after the War', in *Surveyors' Institution, Professional Notes*, 1917 (vol. 23), pp. 51–63.

Discusses necessity of building working-class houses after the war, the different building agencies and the difficulties to be encountered.

Unwin, Raymond. Nothing Gained by Overcrowding! Garden Cities and Town Planning Association. 3rd ed. 1918. 23 pp.

Argues that overcrowding is economically unsound.

—— The Nation's New Houses. *Daily News*. 1919. 32 pp.

Discusses the essentials of a good cottage with special reference to women's point of view.

Welsh Housing and Development Year Book, 1916, pp. 40–6. 'Municipal Housing in Wales.'

Gives particulars of Welsh municipal housing schemes to the end of March, 1915 (number of dwellings, number of rooms, rent, &c., and State loans advanced).

Whyte, W. E. Housing: The Growth of State Interest and Control and what it may lead to. (A lecture delivered before the *Royal Philosophical Society of Glasgow*). Wm. Hodge & Co., Edinburgh and Glasgow. 1920. 35 pp.

Gives an account of housing legislation, estimates liabilities which a full scheme of housing provision would entail, discusses question of future State control of rents, &c.

—— and **Cooper, T. M.** *Vide* COOPER, T. M., *supra*.

Williams, William. 'The Building Industry after the War,' in *Welsh Housing and Development Year Book*, 1917, pp. 88–9.

Refers briefly to the effect of the war on building industry. Gives estimate of number of men employed on Government and private work.

Williamson, A. Maxwell. Housing Reform. Reprinted from *Jl. of State Medicine*. John Bale, Sons, & Danielsson. 1918. 24 pp.

Discusses influence of housing on health. Criticizes Government proposals, urging necessity for improving existing insanitary areas rather than building on outskirts.

Willis, W. Addington. The Law relating to Housing and Town Planning in England and Wales. Butterworth & Co. 2nd ed. 1919. xliv + 261 pp.

Deals in detail with legal aspects of Housing Acts. Preface contains table of statutes and law cases relating to housing since 1838.

Winstanley, Albert. *Vide* HARTLEY, JAS., and WINSTANLEY, ALBERT, *supra*.

Yates, L. K. The Woman's Part. (*Vide infra*, p. 502.)

Chapter VI (pp. 57–64) gives short account of arrangements made for housing munition workers. Quotes statistics of numbers placed between Aug. and Dec. 1917 by the Billeting Board.

¶ *Housing and Trade Journals:*

Architects' and Builders' Journal. Weekly. 6*d*. Illustrated.

Articles on activities of the L.G.B., Ministry of Health, and National Housing and Town Planning Council, and occasional sections on war buildings (factories, canteens, &c.). Greater part technical.

Builder. Weekly. 4*d*. Illustrated.

Largely technical, but contains a fair amount of information as to the effect of war conditions on the building industry. Reports of meetings of Building Trades' Employers, Housing Societies, &c. Notes on legal cases. Discussions on Rent Restrictions Bill, housing shortage, allocation of Government contracts, Government building restrictions. Gives current rates

of wages in different branches of building industry in various towns and detailed lists of prices of building materials in London.

Building Societies' Gazette and Land Companies' Record. Monthly. 3*d.*

Accounts of progress and difficulties of building societies, law intelligence, notes on action of Government with regard to housing. Building Societies' Directory. Criticizes adversely co-partnership schemes for building.

Economist. Weekly. 1*s.*

Contains frequent reviews on effect of war on property market.

Garden Cities and Town Planning Magazine. Monthly. 6*d.*

Articles on town planning, housing and garden cities, accounts of the activities of the Government and of the Garden Cities and Town Planning Association.

Housing Journal. Organ of the Workmen's National Housing Council. Quarterly. (Now organ of Labour Housing Association. Monthly.) 1*d.*

Articles on Housing Acts, housing schemes, &c., and news of conferences and meetings of the Workmen's National Housing Council. Critical of Government and local authorities.

Local Government Chronicle. Weekly. 3*d.*

This and the *Local Government Journal* (*infra*) contain information with regard to housing schemes of local authorities.

Local Government Journal. Weekly. 2*d.*

Municipal Journal. Weekly. 3*d.*

Contains information about housing, town planning and town development, news of activities of local authorities, County Councils' Association, &c. Criticizes Housing Acts.

Surveyor and Municipal and County Engineer. Weekly. 6*d.*

Discusses municipal schemes, including housing schemes.

Town Planning Review. The Journal of the Department of Civic Design, School of Architecture, University of Liverpool. Quarterly. 4*s.* 6*d.* Illustrated.

Articles on town planning at home and abroad, housing legislation, &c., and notes on current housing and architectural news.

D. EDUCATION [1]

¶ *Acts of Parliament :*

Education Act, 1918. 8 & 9 Geo. V. c. 39. 29 pp.

Education (Scotland) Act, 1918. 8 & 9 Geo. V. c. 48. 32 pp.

Education (Scotland) (War Service Superannuation) Act, 1914. 4 & 5 Geo. V. c. 67. 1 p.

Education (Small Population Grants) Act, 1915. 5 & 6 Geo. V. c. 95. 1 p.

Elementary Education (Defective and Epileptic Children) Act, 1914. 4 & 5 Geo. V. c. 45. 4 pp.

Elementary Teachers (War Service Superannuation) Act, 1914. 4 & 5 Geo. V. c. 66. 1 p.

School Teachers (Superannuation) Act, 1918. 8 & 9 Geo. V. c. 55. 11 pp.

¶ *Official Publications :*

Board of Education. Annual Reports.—(Report, 1914–15) 1916,

[1] *Vide* also under JUVENILE LABOUR, § V, c, *infra*, pp. 467–74. A useful collection of notes and press cuttings on Education in Great Britain during 1914–16 and 1919–20 has been made by the *Fabian Women's Group* (*vide* footnote, p. 19, *supra*). The subjects dealt with include the commandeering of school buildings, war economies, exemptions from school attendance, and employment out of school hours.

Board of Education (*cont.*)

Cd. 8274, vol. 8. vi + 104 pp. —(Report, 1915–16) 1917–18, Cd. 8594, vol. 11. v + 83 pp.—(Report, 1916–17) 1918, Cd. 9045, vol. 9. vi + 85 pp. — (Report, 1917–18) 1919, Cmd. 165. vi + 83 pp. —(Report, 1918–19) 1920, Cmd. 722. vi + 98 pp.

Give some account of the effect of the war on education, e. g. enlistment of teachers and students in training colleges, restriction of expenditure on new schools, occupation of schools by military, employment of children, statistics of attendance, munition work undertaken and training of munition workers, research work for Government undertaken by universities, training of men in the forces, Juvenile Unemployment Centres (Report 1918–19), &c.

—— Cookery, Economical, Special Regulations for Grants in aid of Instruction for Housewives in. 1914–16, Cd. 7989, vol. 50. 3 pp.

Deals with grants in aid of special instruction in war-time cookery.

—— Education Bill, 1917, Notes on certain Clauses of. 1917–18, Cd. 8713, vol. 25. 10 pp.

—— Education (No. 2) Bill, 1918, Notes on. 1917–18, Cd. 8918, vol. 25. 5 pp.

Shows differences between Education (No. 2) and Education (No. 1) Bills.

—— Ex-Service Students, Higher Education of, Regulations for payment of grants in respect of, Mar. 5 and Ap. 11, 1919, and Feb. 5, 1920. 1919, Cmd. 64. 4 pp. — 1919, Cmd. 120. 1 p.—1920, Cmd. 548. 4 pp.

—— Juvenile Education in relation to Employment after the War, Departmental Committee on. Interim Report. 1916, Cd. 8374, vol. 8. 4 pp.—Final Report (vol. 1) and Summaries of Evidence and Appendices (vol. 2). 1917–18, Cd. 8512, 8577, vol. 11. 42 pp., 89 pp.

Recommends full utilization and further establishment of Juvenile Advisory Committees, a uniform school-leaving age of 14, compulsory continuation classes from 14 to 18, &c.

—— Medical Officer of the Board. Annual Reports.

Vide supra, pp. 4–5.

—— Men serving with the Colours, Special Regulations for Grants in aid of Instruction for. 1914–16, Cd. 7712, vol. 50. 4 pp.

Authorizes grants to local authorities organizing instruction for soldiers and specifies subjects that may be taught.

—— Scholarships and Free Places, Report of Departmental Committee on. 1920, Cmd. 968. 82 pp.

Discusses present position as regards scholarships, &c., and arrangements to be made in future. Gives statistics of supply of free places, maintenance allowances, &c.

—— Scholarships for Higher Education, Interim Report of Consultative Committee on. 1916, Cd. 8291, vol. 8. x + 74 pp.

Deals mainly with needs of industry and commerce. Discusses history and aims of scholarship system and its relation to national education, and necessity for scholarships for pursuit of scientific and technical subjects at universities. Recommends larger Government grants.

—— Teachers, Salaries for, in Elementary Schools, Departmental Committee on Principles which should determine the construction of scale of. Vol. 1. Report. 1917–18, Cd. 8939, vol. 11. 63 pp.—Vol. 2. Summaries of Evidence and Memoranda. 1918, Cd. 8999, vol. 9. 72 pp.

This and the following report discuss principles on which scales of salary should

be constructed and give information as to the existing position.

—— Teachers, Salaries for, in Secondary and Technical Schools, &c., Committee on. Vol. 1. Report. Vol. 2. Summaries of Evidence. 1918, Cd. 9140, 9168, vol. 9. 56 pp., 108 pp.

—— Teachers, Salaries for, in Elementary Schools, Report of Joint Standing Committee on provisional minimum scale of. 1919, Cmd. 443. 8 pp.

The 'Burnham Committee'. Draws up a scale of salaries and machinery for putting the same into operation.

—— Teachers, Statement showing Staffing and average Salaries of, in Elementary Schools in 1913–14. 1917–18, Cd. 8513, vol. 25. 17 pp. —Salaries of, in Elementary Schools on Ap. 1 in 1917, 1918, and 1919. 1919, Cmd. 513. 15 pp.

—— Teachers, Regulations for Training of (in force from Oct. 1918). 1918, Cd. 9176, vol. 19. 63 pp.

Includes (pp. 22, 30) conditions under which men whose course of training has been interrupted by war service might be recognized as certificated teachers.

—— Wales, Secondary Education in, Report of Committee on. 1920, Cmd. 967. 131 pp.

Gives historical account of secondary education in Wales and considers the system in relation to Education Act, 1918. Discusses the adequacy of the provision.

—— Welsh Intermediate Education Act, 1889, Annual Reports under. — (Report, 1914) 1914–16, No. 239, vol. 18. 19 pp.—(Report, 1915) 1916, No. 69, vol. 8. 18 pp. —(Report, 1916) 1917–18, No. 81, vol. 11. 18 pp.—(Report, 1917) 1918, No. 39, vol. 9. 19 pp.—(Report, 1918) 1919, Cmd. 213. 17 pp. — (Report, 1919) 1920, Cmd. 689. 15 pp.

Give statistics of number of Welsh intermediate schools, number of pupils, teachers' salaries, &c. Discuss effect of war.

Dept. of Scientific and Industrial Research. Annual Reports.

Vide infra, p. 133.

Ireland. Commissioners of National Education in Ireland. Annual Reports.—(Report, 1914–15) 1916, Cd. 8341, vol. 8. iv + 42 pp. —(Report, 1915–16) 1917–18, Cd. 8495, vol. 11. iv + 40 pp.—(Report, 1916–17) 1918, Cd. 9097, vol. 9. iv + 40 pp.—(Report, 1917–18) 1919, Cmd. 299. iv + 36 pp.—(Report, 1918–19) 1920, Cmd. 1048. iv + 38 pp.

Give number of schools, attendances, number of teachers, &c.

—— Committee, Vice-regal, on Conditions of Service and Remuneration of Teachers in Intermediate Schools and on Distribution of Grants for Intermediate Education in Ireland, Report of. 1919, Cmd. 66. 60 pp.

Gives an account of developments in intermediate educational system, public funds available and methods of application, existing conditions of service and remuneration of teachers, need for increased funds, &c., and makes recommendations.

—— Committee, Vice-regal, of Inquiry into Primary Education (Ireland), 1918. Vol. 1. Report. Vol. 2. Summaries of Evidence Memoranda, and Returns. 1919, Cmd. 60, 178. 44 pp., 81 pp.

Discusses the position and conditions of service of Irish teachers and distribution of grants, school attendances and inadequacy of accommodation in Belfast, &c.

—— Intermediate Education Board for Ireland. Annual Reports.—(Report, 1914) 1914–16, Cd. 8008, vol. 20. xxx + 21 pp. —(Report, 1915) 1916, Cd. 8369,

vol. 8. xxiv + 18 pp. — (Report, 1916) 1917–18, Cd. 8630, vol. 11. xxviii + 19 pp. — (Report, 1917) 1918, Cd. 9118, vol. 9. xxiv + 18 pp.—(Report, 1918) 1919, Cmd. 323. xxv + 18 pp.—(Report, 1919) 1920, Cmd. 904. xxvii + 20 pp.

Give statistics of number of scholars, results of examinations, grants paid, &c. Discuss unsatisfactory position as regards system of grants, salary and status of teachers, financial position of the Board, &c.

Ministry of Reconstruction. Adult Education, Committee on. Interim Report. Industrial and Social Conditions in relation to Adult Education. 1918, Cd. 9107, vol. 9. 32 pp.

Describes present position as regards adult education and growth of interest in education during the war; discusses industrial and social obstacles to adult education and makes recommendations.

—— *Ibid.* 2nd Interim Report. Education in the Army. 1918, Cd. 9225, vol. 9. 10 pp.

Contains information as to schemes already started and makes suggestions for the future.

—— *Ibid.* 3rd Interim Report. Libraries and Museums. 1918, Cd. 9237, vol. 9. 19 pp.

Surveys existing provision and makes recommendations for fuller use.

—— *Ibid.* Final Report. 1919, Cmd. 321. 409 pp.

Gives historical account of adult education in Great Britain, reviews existing provision, describes war-time developments (including education among H. M. forces), discusses methods adopted, supply of teachers, organization and finance, &c., and makes recommendations.

—— Modern Studies: being the Report of the Committee on the Position of Modern Languages in the Educational System of Great Britain. 1918, Cd. 9036, vol. 9. 258 pp.

Discusses history of the study, neglect and value of modern languages and methods for their instruction in elementary and secondary schools and universities.

—— Natural Science in Education: being the Report of the Committee on the Position of Natural Science in the Educational System of Great Britain. 1918, Cd. 9011, vol. 9. 272 pp.

Surveys position of science in elementary, secondary, technical, professional and university education.

—— Reconstruction Problems. No. 10. Labour Conditions and Adult Education. 19 pp.—No. 21. Classics in British Education. 17 pp.—No. 26. Natural Science in British Education. 14 pp.—No. 30. Modern Languages in British Education. 18 pp. H.M.S.O. 1919.

No. 10 is a summary of Interim Report of Committee on Adult Education. Nos. 21, 26, 30, discuss the part which should be played by classics, &c. (Nos. 26 and 30 are based on Reports, Cd. 9011 and 9036, *supra*).

Scotland. Scottish Education Dept. Annual Reports of Committee of Council on Education in Scotland. — (Report, 1914–15) 1914–16, Cd. 7928, vol. 20. 66 pp. — (Report, 1915–16) 1916, Cd. 8278, vol. 8. 26 pp. — (Report, 1916–17) 1917–18, Cd. 8648, vol. 11. 25 pp. — (Report, 1917–18) 1918, Cd. 9091, vol. 9. 24 pp.— (Report, 1918–19) 1919, Cmd. 264. 26 pp. — (Report, 1919–20) 1920, Cmd. 782. 45 pp.

Contain brief references to effect of war, e. g. enlistment of teachers and students, use of schools by military authorities, employment and medical inspection of school children, cessation of building, classes for munition workers, &c.

—— *Ibid.* Reports, &c., issued in 1914–15, in 1915–16, in 1916–19, H.M.S.O. 1916, 1917, 1919.

Contain reprints of reports of Committee

of Council on Education, abstracts of income and expenditure of School Boards, &c., examination papers, minutes and circulars issued, &c.

—— *Ibid.* General Reports for the year 1919 by H.M. Chief Inspector of Schools in Scotland. H.M.S.O. 1920. 53 pp.

Reports on the separate divisions, dealing with supply of primary schools, attendance, staffing, instruction, feeding of necessitous children, work of Juvenile Advisory Committees, transfer of functions from School Boards to Education Authorities, &c.

—— *Ibid.* Teachers, Remuneration of, in Scotland, Report of Departmental Committee on. H.M.S.O. 1917. 13 pp.

Makes recommendations with regard to scales of salaries.

War Office. Educational Training in the British Army, Report on. 1920, Cmd. 568. 16 pp.

Gives an account of the inauguration and development of educational training, technical and general, in the Army (mainly since the Armistice).

—— Imperial Education Conference, convened by the Chief of the Imperial Staff, June 11 and 12, 1919. H.M.S.O. 1919. 76 pp.

Report of speeches and addresses discussing educational problems in the light of the experience gained in the working of the educational schemes in the Army.

¶ *Books and Periodicals :*

The Athenaeum. Mar. and Ap. 1917, pp. 121–3, 174–7. 'The Claim of Adult Education.'

Discusses demand for and need of adult education, recent movements to meet this demand (with special reference to the Workers' Educational Association), and possible future developments along University lines.

—— Sep. 1917, pp. 431–4. 'The Education Bill.'

Criticizes the Bill as not being sufficiently drastic and far-seeing and as missing the opportunity of introducing universal secondary education.

—— Oct., Nov., Dec. 1917, pp. 495–8, 570–3, 645–7; June 1918, pp. 258–61. 'Rural Education.'

Discusses reforms needed in rural elementary education, and difficulties in the way of these reforms.

—— Dec. 1917, pp. 639–40. 'Works Schools : A Sinister Suggestion.'

Criticizes Mr. Fisher's policy in giving employers permission to organize their own continuation schools.

—— Jan. 1918 (Supplement), pp. 53–60. Report of a Conference on Rural Education held at 'Simonstone', Hawes, Wensley Dale, Sep. 29 and 30, 1917.

Discusses difficulties (isolation, inadequate housing, irregular attendance, &c.) encountered by teachers in remote country schools, and difficulties of providing education for adolescents and adults in rural districts, and makes some suggestions for obviating these.

—— 'Capitalism and Education' (reprinted from *The Athenaeum*, Mar. 1918, pp. 131–4). 1918. 12 pp.

Discusses a 'Memorandum on Education'[1] issued by the Federation of British Industries. Criticizes it severely on the grounds that education must not be made the tool of industry.

Axton, Edward H. 'The Juvenile Unemployment Centre : an Experiment in Education,' in *C.R.*, Oct. 1919 (vol. 116), pp. 448–53.

Discusses difficulties of the Unemployment Centre and educational value. Describes methods adopted at one centre.

British Electrical and Allied Manufacturers' Association. Education and Training for the

[1] Out of print.

Electrical and Allied Engineering Industries. Being a Report of the Education Committee of the B.E.A.M.A. Edward Arnold. 1920. vii + 64 pp.

Outlines schemes for systematic technical training of apprentices in electrical, &c. industries, to be supplemented by facilities for general education.

Bryant, V. Seymour. The Public School System in relation to the coming Conflict for National Supremacy. With a Preface by Lord Rayleigh. Longmans, Green & Co. 1917. xvii + 78 pp.

Protests against excessive time allotted to classics and inadequate time to science at preparatory and public schools, draws lessons from the war showing England's difficulties resulting from her neglect of science.

Clarke, John (Editor). Problems of National Education. By Twelve Scottish Educationalists. Macmillan & Co. 1919. 368 pp.

Essays written after the Act of 1918, on various aspects of Scottish education.

Co-operative Union. Annual Reports of Co-operative Congress. (*Vide infra*, p. 453.)

Contain, *passim*, information with regard to educational work and programme of the co-operative movement.

Crewe, Lord. 'The Education Bill,' in *C.R.*, Dec. 1917 (vol. 112), pp. 601–9.

Discusses provisions of the Bill.

Dare, Walter Mundy. England's Present Needs. G. Sharrow. 1917. 8 pp.

Urges compulsory military or naval training for all boys between the ages of fourteen and seventeen and the reduction of hours of education for all children between the ages of seven and fourteen.

Davies, Sir Alfred (Board of Education). Student Captives. Stevens & Son, Leicester, Printers. 1917. 29 pp.

—— Student Captives. No. II. Sanders Philips & Co., The Baynard Press. 2nd ed. 1918. 36 pp.

These two pamphlets contain accounts of the work under the British Prisoners of War Book scheme (educational).

Educational Associations. Annual Conferences of, for the years 1916, &c. The Darien Press, Edinburgh.

Reports of inaugural meeting, of the meetings of the various Associations represented, and of papers read at the Conference. Interesting address, 'Education after the War,' by Sir Oliver Lodge, in Report for 1916.

Entwistle, A. Rowland. Adult Education in Industry. Summary of an Address given before a Conference of Works and Business House Education Officials at the Ruskin Hall, Bourneville, on Feb. 28, 1919. 20 pp.

Emphasises desirability of education for adult workers, and sketches 'Opportunity Plan' in force at Turner Bros., Asbestos Co., Rochdale.

Federation of British Industries. Report of Education Committee on Compulsory Continued Education, July 1919. 9 pp. F. B. I., 39 St. James's Street.

Discusses the difficulties to be encountered, the position of the works school, curriculum, &c. Appendix contains particulars of educational schemes established by thirty-one firms (before Education Act, 1918).

Findlay, J. J. (Editor). The Young Wage-Earner and the Problem of his Education. Sidgwick & Jackson. 1918. xiv + 211 pp.

Essays and reports collected by the Uplands Association. Discusses clubs, continuation classes, classes arranged by firms for their employees, &c., with reference to special difficulty in dealing with adolescents owing to war conditions.

Fisher, H. A. L. Educational

Reform. Clarendon Press, Oxford. 1918. xvi + 101 pp.

Collection of speeches on Education estimates and Education Bill delivered by Mr. Fisher, 1917–18.

Fortnightly Review, Aug. 1919 (vol. 105), pp. 259–66. 'Education in the Army,' by an Officer Instructor.

Describes the development and successful progress of the Army Education Scheme.

G., A. The War and Education. Pamphlets on Problems of National Reconstruction, No. I. *The Athenaeum*. 1917. 7 pp.

Discusses changes brought about by war, noting exemption of children from school attendance for land work, scientific research, voluntary educational work, and Government's action with regard to education.

Greenwood, Arthur. The Education of the Citizen. Workers' Educational Association. 1920. 64 pp.

A summary of the proposals of the Adult Education Commitee of the Ministry of Reconstruction.

Hopkinson, Sir Alfred. 'The Education Bill,' in *C. R.*, Feb. 1918 (vol. 113), pp. 152–60.

Discusses provisions of the Bill.

Koch, Theodore Wesley. Books in Camp, Trench and Hospital. J. M. Dent & Sons. 1917. 48 pp.

Describes work done by British organizations in supplying literature to the troops. Includes (pp. 34–42) an account of the British Prisoners of War Book scheme (educational). (The papers in this pamphlet are reproduced in slightly altered form in the publication following.)

—— War Libraries and Allied Studies. G. E. Stechert & Co., New York. 1919. xxii + 287 pp.

Describes work done by American and British organizations in supplying literature to the troops. Includes (pp. 105–15) an account of the British Prisoners of War Book scheme (educational).

Labour Year Book, 1919. (*Vide infra*, pp. 369–70).

Section on Education, pp. 269–98, deals with the future of education and reforms considered necessary by the Labour Party. Gives statistics of school accommodation, attendance, medical treatment, &c., a summary of the Education Act, 1918, and short accounts of the Workers' Educational Association, Ruskin College, &c.

Mactavish, J. M. Education in its relation to Labour and Industry. Workers' Educational Association. 1919. 15 pp.

Paper read at Birmingham in 1919 at Summer Convention of employers and employed. Claims that the problem of labour is largely psychological and sketches educational developments necessary to solve problem.

Magnus, Sir Philip. 'The Teachers' Pension Act,' in *F. R.*, Jan. 1920 (vol. 107), pp. 127–35.

Discusses the provisions of the Act of 1918, showing its probable detrimental effects on secondary education and urging its amendment.

Mansbridge, Albert. 'Some Thoughts on Continuation Education for Wage-Earning Boys and Girls,' in *The Athenaeum*, Dec. 1916, pp. 606–7.

Criticizes (favourably) idea of continuation classes and discusses some of their aspects and their probable future development.

—— An Adventure in Working-Class Education. Longmans, Green & Co. 1920. x + 73 pp.

The History of the Workers' Educational Association, 1903–15. Only the last chapter (pp. 61–6) deals with war years. Appendix I gives statistics showing growth of the W.E.A. from 1904–19.

Mason, Charlotte M. The Scope of Continuation Schools. Parents' National Education Union. 1919. 39 pp.

Advocates a liberal, rather than a technical and utilitarian, education in continuation schools.

Moulton, H. Fletcher. Powers and Duties of Education Authorities. William Hodge & Co. 1919. xvi + 250 pp.

Describes powers and duties of the Board of Education, Local Education Authorities and other authorities dealing with education, with regard to elementary and higher education, voluntary associations, special schools, continuation classes, medical inspection, grants, teachers, &c. Appendix gives text of Education Acts, 1870–1918.

Newton, A. W. The English Elementary School. Longmans, Green & Co. 1919. 300 pp.

Gives full account of elementary schools, their administration, inspection and curriculum, training of teachers, &c. Useful book of reference.

Rowntree, Arnold S. The 1918 Education Act Explained. *The Athenaeum.* 1919. 12 pp.

Explains the Act as an educational highway. Final section on 'What the Public can do to help the Act'.

Ryan, F. W. 'The Preparation of National School Pupils for Technical Training and Industrial Life,' in *Jl. of Statistical and Social Inquiry Soc. of Ireland*, Sep. 1917 (Pt. 96, vol. 13), pp. 399–418.

Discusses need in Irish national schools for manual instruction, medical treatment and continuation classes. Shows defects in present system and ill effects of war on schemes for improvement and describes some recent improvements.

Salford, Bishop of. 'A Problem of After-war Reconstruction : The Study of Foreign Languages,' in *Trans. Manchester Statistical Soc.*, session 1918–19, pp. 55–78.

Discusses defects in systems of teaching modern languages before the war and changed attitude and developments during war.

Shaw, Sir Napier. The Lack of Science in Modern Education. Lamley & Co. 1916. 42 pp.

Pleads for a more general and more interesting teaching of science, also for an education authority that should have control over private as well as State schools.

Sheffield, Lord. 'The Education Bill, 1917,' in *C. R.*, Oct. 1917 (vol. 112), pp. 361–7.

Discusses merits and demerits of the Bill.

Temple, William. Tradition, Policy and Economy in English Education. Workers' Educational Association. 1915. 10 pp.

The Presidential Address at the 12th Annual Meeting of the Workers' Educational Association. Urges further expenditure on education and emphasizes increased importance of education on account of the war.

Thomas, Arthur A. The Education Act, 1918. 2nd ed. P. S. King & Son. 1919. xiii + 199 pp.

Clear and useful handbook explaining provisions of the Act.

Wilkinson, K. E. T. A Guide to the Education Act, 1918, with a Foreword by Arnold S. Rowntree. *The Athenaeum.* 1919. 116 pp.

Useful handbook explaining provisions of the Act.

Workers' Educational Association. Educational Reconstruction : being the Recommendations of the W.E.A. to the Reconstruction Committee. 1917. 11 pp.

Recommendations dealing with all branches of education.

—— Adult Education : Recommendations of the W. E. A. based on the Final Report of the Adult Education Committee of the Ministry of Reconstruction. The Central Book Room. 1920. 16 pp.

Gives text of the proposals of the Committee with alterations suggested by W.E.A.

Worsfold, W. Basil. The War and Social Reform. John Murray. 1919. viii + 248 pp.

Chap. III, pp. 88–115, 'The Extension and Improvement of the System of Public Education.' Describes developments in educational system during war.

¶ *Journals:*

Boys' Welfare Journal.

Vide infra, p. 414.

Educational Times and Journal of the College of Preceptors. Monthly. 6*d.*

Published mainly for secondary and private school teachers. Contains articles on teaching and general aspects of education, accounts of meetings of the College of Preceptors and its examinations, &c.

Highway. Monthly. 2*d.*

The Organ of the Workers' Educational Association.

Journal of Education. Monthly. 6*d.*

Contains useful notes on activities of schools, universities and local education authorities, articles on education, literature, history, &c., reports of educational conferences, &c.

Local Government Chronicle. Weekly. 3*d.*

This and the *Local Government Journal* (*infra*) contain information with regard to the activities of Local Education Authorities.

Local Government Journal. Weekly. 2*d.*

London County Council Gazette. Weekly. 2*d.*

Greater portion devoted to educational matters, e. g. appointment of teachers, evening institutes, scholarships, school accommodation, medical inspection, Juvenile Advisory Committees, School Care Committees, &c.

School Government Chronicle and Education Authorities' Gazette. Weekly. 3*d.*

Contains full reports of proceedings of L.C.C. Education Committee, official news of other Education Authorities, minutes of the Board of Education, Parliamentary educational news, and brief comments on universities, secondary schools and juvenile employment.

Schoolmaster. Weekly. 2*d.*

The Organ of the National Union of Teachers. Contains notes on school inspection, new school buildings, special schools, &c., and on activities of Education Authorities. Discusses all questions relating to teachers' salaries, pensions, &c.

Times Educational Supplement. Weekly. 1*d.*

Contains notes and articles on various aspects of education in United Kingdom and abroad.

E. PUBLIC ORDER AND CRIME[1]

¶ *Acts of Parliament:*

Aliens Restriction Act, 1914. 4 & 5 Geo. V. c. 12. 2 pp.

Aliens Restriction (Amendment) Act, 1919. 9 & 10 Geo. V. c. 92. 8 pp.

British Nationality and Status of Aliens Act, 1914. 4 & 5 Geo. V. c. 17. 9 pp.

Makes provision with regard to naturalization.

Clubs (Temporary Provisions) Act, 1915. 5 & 6 Geo. V. c. 84. 4 pp.

Provisions *re* closing of clubs during specified hours, closing of illegal clubs, registration of new clubs, &c.

Constabulary and Police (Ireland) Act, 1919. 9 & 10 Geo. V. c. 68. 4 pp.

Provides for establishment of representative police bodies in Ireland, prohibits police constables from joining trade unions, &c.

[1] *Vide* also WOMEN: EMPLOYMENT ON PATROL AND POLICE WORK, § V, D, 1, h, *infra*, pp. 503–4.

Coroners (Emergency Provisions) Act, 1917. 7 & 8 Geo. V. c. 19. 1 p.

Provides for reduction, during war, in number of jurors at coroners' inquests.

Defence of the Realm Acts. *Vide infra*, pp. 82–3.

Grand Juries (Suspension) Act, 1917. 7 & 8 Geo. V. c. 4. 2 pp.

Juries Act, 1918. 8 & 9 Geo. V. c. 23. 3 pp.

Limits, during the war, the right of parties to require juries to be summoned in certain civil cases. Raises limit of age of exemption from jury service, and enables coroners' inquests to be held in certain cases without a jury.

Police Act, 1919. 9 & 10 Geo. V. c. 46. 7 pp.

Provides for establishment of Police Federation, prohibits constables from joining trade unions, &c.

Special Constables Act, 1914. 4 & 5 Geo. V. c. 61. 2 pp.

Special Constables (Scotland) Act, 1914. 4 & 5 Geo. V. c. 53. 1 p.

Ibid., 1915. 5 & 6 Geo. V. c. 47. 1 p.

¶ *Official Publications :*

Manuals of Emergency Legislation. Defence of the Realm Manuals. Defence of the Realm Regulations. (*Vide infra*, p. 84.)

Contain Regulations bearing on public order and crime and Orders made under the Regulations.

Statutory Rules and Orders. (*Vide infra*, p. 85.)

Contain Orders made with regard to aliens restriction, special constables, &c.

Board of Education. Juvenile Delinquency, Report of Juvenile Organizations Committee on. H.M.S.O. 1920. 41 pp.

Discusses returns obtained from juvenile courts in four towns, 1917–19, with regard to the social, industrial and educational position of juvenile offenders, the offences committed, treatment, &c., and makes recommendations for reform of procedure.

Home Office. [Aliens]. Report of Commissioners appointed to review the Permits under which Alien Enemies are allowed to reside in Prohibited Areas. 1916, Cd. 8419, vol. 4. 7 pp.

Gives an account of the way in which Aliens Restriction Order is being administered, and extracts from Home Office circulars on the subject.

—— Constabulary, Annual Reports of H.M. Inspector of. — (Report for 1913–14, Oct. to Sep.) 1914–16, No. 209, vol. 32. iv + 167 pp.—(Report, 1914–15) 1916, No. 35, vol. 14. 8 pp. — (Report, 1915–16) 1917–18, No. 45, vol. 18. 4 pp.—(Report, 1916–17) 1917–18, No. 173, vol. 25. 7 pp. — (Report, 1917–18) 1919, No. 38. 5 pp. — (Report, 1918–19) 1920, No. 91. 29 pp.

Contain information as to numbers of police, enlistment, discipline, &c., special constables, employment of women police. Report for 1913–14 contains separate reports on each borough and county force, with tables as to the numbers, rates of pay, &c.

—— Judicial Statistics, England and Wales. Statistics for 1914. Pt. I. Criminal Statistics. 1914–16, Cd. 8148, vol. 82. 104 pp. Pt. II. Civil Judicial Statistics. H.M.S.O., 1916.—*Ibid.*, 1915. Parts I and II. H.M.S.O., 1917. — *Ibid.*, 1916. Parts I and II. H.M.S.O., 1918. — *Ibid.*, 1917. Part I. 1919, Cmd. 215. 30 pp. Part II. 1919, Cmd. 294. 32 pp. — *Ibid.*, 1918. Part I. 1920, Cmd. 684. 65 pp. Part II. 1920, Cmd. 831. 52 pp.

Parts I contain tables of proceedings at Assizes, Quarter Sessions, Courts of summary jurisdiction, and juvenile courts ;

police returns (number of apprehensions, &c.); inquests; numbers admitted to prisons, Borstal institutions, reformatory and industrial schools, &c. Parts II relate to proceedings in Judicial Committee of Privy Council, House of Lords, Supreme Court of Judicature, County Courts and other civil courts.

—— Juvenile Organizations Committee. *Vide* under BOARD OF EDUCATION, *supra*.

—— Police of the Metropolis, Annual Reports of the Commissioner of. — (Report, 1914) 1916, Cd. 8188, vol. 14. 35 pp. — (Report 1915) 1916, Cd. 8405, vol. 14. 30 pp. — (Report, 1916) 1917–18, Cd. 8827, vol. 18. 30 pp. — (Report, 1917) 1918, Cd. 9204, vol. 12. 23 pp. — (Report, 1918 and 1919) Parts I (Report) and II (Tables). 1920, Cmd. 543 and 901. 14 pp. and 27 pp.

Deal with numbers of police, enlistments, pay, police rate, extent of crime, &c. Statistics of serious offences committed, drunkenness, number of children detained, accidents, &c. Report for 1918–19 contains brief accounts of employment and work of women police and of police strike.

—— Police Service of England, Wales, and Scotland, Report of Committee on.

Vide infra, p. 401.

—— Prisons, Annual Reports of the Commissioners of, and the Director of Convict Prisons.—(Report, 1914–15) 1914–16, Cd. 7837, vol. 33. 120 pp.—(Report, 1915–16) 1916, Cd. 8342, vol. 15. 39 pp. — (Report, 1916–17) 1917–18, Cd. 8764, vol. 18. 41 pp. — (Report, 1917–18) 1918, Cd. 9174, vol. 12. 44 pp. — (Report, 1918–19) 1919, Cmd. 374. 63 pp. — (Report, 1919–20) 1920, Cmd. 972. 51 pp.

Discuss number of prisoners received (in prisons, Borstal institutions, and State inebriate reformatories), effect of war conditions on prison population (numbers, ages, conduct, output of work), drunkenness, juvenile crime, &c. Statistics as to accommodation for prisoners, prison punishments, employment and value of labour of prisoners, numbers, length of sentences, &c. Reports for 1918–19 and 1919–20 contain accounts of formation and working of Prison Officers' Representative Board and scales of pay agreed on.

—— Reformatory and Industrial Schools of Great Britain, Reports of Chief Inspector of, for 1914 and 1915. 1914–16, Cd. 8091, vol. 34. 48 pp. 1916, Cd. 8367, vol. 15. 43 pp.

Give accounts, with statistics, of the work of the schools, numbers admitted, enlistments, training, after-care, &c.

—— Special Constabulary, Metropolitan, Report of Col. Sir E. W. D. Ward on the Service of. 1920, Cmd. 536. 20 pp.

Describes work undertaken by Metropolitan Special Constabulary during war.

Ireland. Commission, Viceregal, on Re-organization and Pay of the Irish Police Forces, Report of. 1920, Cmd. 603.

Vide infra, p. 402.

—— Judicial Statistics, Ireland. Statistics for 1914. Pt. I. Criminal Statistics. Pt. II. Civil Statistics. 1914–16, Cd. 8077, 8006, vol. 82. xxxvi + 131 pp., 93 pp. — *Ibid.* for 1915 (Parts I and II). 1917–18, Cd. 8636, vol. 37. 99 pp. — *Ibid.* for 1916. 1918, Cd. 9066, vol. 25. 101 pp. — *Ibid.* for 1917. 1919, Cmd. 43. 99 pp.—*Ibid.* for 1918. 1919, Cmd. 438. 100 pp.

Parts I contain tables of proceedings at Assizes, Quarter Sessions, Courts of summary jurisdiction and juvenile courts, and police returns. Parts II relate to proceedings in Supreme Courts of Appeal, High Court of Justice, County Courts and Recorders' Courts, &c.

—— Police, Dublin Metropolitan, Statistical Tables of, for 1914, &c. — (1914) 1914–16, Cd. 8065,

Ireland (*cont.*)

vol. 54. viii + 33 pp. — (1915) 1916, Cd. 8417, vol. 22. vi + 14 pp.—(1916) 1919, Cmd. 30. vii + 14 pp.—(1917) 1919, Cmd. 364. vi + 14 pp.—(1918) 1920, Cmd. 624. vi + 14 pp.

Contain statistics as to number of indictable and non-indictable offences, cases tried summarily, juvenile courts, &c., and brief reports on these statistics.

—— Prisons Board, General, Ireland. Annual Reports. — (Report, 1914–15) 1914–16, Cd. 8082, vol. 33. xvi + 44 pp. — (Report, 1915–16) 1917–18, Cd. 8450, vol. 18. xi + 23 pp.—(Report, 1916–17) 1918, Cd. 8992, vol. 12. vii + 24 pp. — (Report, 1917–18) 1919, Cmd. 42. xii + 25 pp. — (Report, 1918–19) 1920, Cmd. 687. xii + 22 pp.

Contain statistics as to numbers committed (to prisons, Borstal institutions, and State Inebriate Reformatory), sentences, prison punishments, &c., and brief discussions of these statistics.

—— Reformatory and Industrial Schools of Ireland, Annual Reports of Inspector of. — (Report, 1914) 1914–16, Cd. 8092, vol. 34. 132 pp. — (Report, 1915) 1916, Cd. 8426, vol. 15. 62 pp. — (Report, 1916) 1917–18, Cd. 8680, vol. 18. 35 pp.—(Report, 1917) 1919, Cmd. 59. 29 pp. — (Report, 1918) 1920, Cmd. 571. 31 pp.

Contain information as to number of schools, admissions, offences for which children are committed, training, enlistments, &c.

Scotland. Constabulary, Annual Reports of H.M. Inspector of, for Scotland. — (Report, 1914) 1914–16, Cd. 7849, vol. 32. v + 80 pp. — (Report, 1915) 1916, Cd. 8221, vol. 14. 4 pp. — (Report, 1916) 1917–18, Cd. 8504, vol. 18. 4 pp. — (Report, 1917) 1918, Cd. 9012, vol. 12. 2 pp. — (Report, 1918) 1919, Cmd. 90. 3 pp. — (Report, 1919) 1920, Cmd. 971. 15 pp.

Deal with numbers of police, enlistments, vagrancy, &c.

—— Judicial Statistics of Scotland, Annual Reports on.—Report for 1914. 1914–16, Cd. 8126, vol. 82. 155 pp. — Reports for 1915 to 1919. H.M.S.O. 100 to 140 pp.

Contain statistics of apprehensions by police, proceedings before summary courts and High Court of Justiciary and Sheriff Courts, admissions to prisons, Borstal institutions, reformatory and industrial schools and inebriate reformatories, and proceedings in civil courts, with brief comments on these statistics.

—— Prison Commissioners for Scotland, Annual Reports.—(Report, 1914) 1914–16, Cd. 7927, vol. 33. 79 pp. — (Report, 1915) 1916, Cd. 8265, vol. 15. 36 pp.—(Report, 1916) 1917–18, Cd. 8578, vol. 18. 35 pp.— (Report, 1917) 1918, Cd. 9064, vol. 12. 35 pp. — (Report, 1918) 1919, Cmd. 78. 64 pp. — (Report, 1919) 1920, Cmd. 698. 63 pp.

Contain statistics as to numbers in prisons, Borstal institutions, and State Inebriate Reformatory, length of sentences, ages, crimes for which committed, prison accommodation, punishments, employment of prisoners and value of labour, &c., with brief discussions of these statistics.

¶ *Books and Periodicals :*

Chapman, Cecil M. 'War and Criminality,' in *Sociological Review*, Autumn 1916 (vol. 9), pp. 79–87.

Discusses increase, since outbreak of war, in juvenile criminality, adult crime, especially stealing, and immorality among women and girls. Discusses effect of liquor control on drunkenness.

Gotto, Sybil (Mrs. Neville-Rolfe). 'The Changing Moral Standard,' in *N. C.*, Oct. 1918 (vol. 84), pp. 717–30.

Discusses extent of prostitution as effect of war conditions. Gives instances of laxer standard of morality, and discusses causes.

Howard Association (now **Howard League for Penal Reform**). Annual Reports for 1915 and 1916. (Discontd. after 1916.)

Discuss briefly statistics of crime and effect of the war.

Leeson, Cecil. The Child and the War. P. S. King & Son. 1917. 69 pp.

Discusses increase of juvenile crime, giving analysis of records of Birmingham children's courts, 1913–14 to 1915–16. Discusses causes of increase and methods of dealing with the children.

Sellers, Edith. 'Boy and Girl War Products; their Reconstruction,' in *N. C.*, Oct. 1918 (vol. 84), pp. 702–16.

Discusses influence of war conditions (high wages, lack of discipline, &c.) on character of boys and girls.

Whitley, Wm. F. J. 'Juvenile Crime,' in *Medical Officer*, Oct. 5, 1918 (vol. 20), pp. 121–3.

Records results of enquiry into clinical history and sociological conditions of 56 children charged with offences. Discusses briefly the causes of increase in juvenile crime during war.

F. CHANGES IN DISTRIBUTION OF THE NATIONAL INCOME [1]

¶ *Official Publications:*

Board of Inland Revenue. Income, taxable, Estimate showing the approximate distribution of the estimated amounts of. 1919, Cmd. 224.

Vide infra, p. 572.

Commission, Royal. Income Tax, Report of Royal Commission on.

Vide infra, pp. 572–3.

¶ *Books and Periodicals:*

Allen, J. E. 'Some Changes in the Distribution of the National Income during the War,' in *Jl. Roy. Stat. Soc.*, Jan. 1920 (vol. 83), pp. 86–126 (with discussion).

Discusses effect of war on incomes from property and different classes of securities, creation of new wealth, effect of war taxation, course of wages in different occupations and salaries, distribution of national income as compared with pre-war position.

Bowley, A. L. The Division of the Product of Industry. Clarendon Press, Oxford. 1919. 60 pp.

An investigation into the proportional division of the product of industry before the war. Draws general conclusions (with special reference to the conditions produced by the war on the question of the national or individual ownership of industries) as to the possibility of increasing the share of the wage-earners.

—— The Change in the Distribution of the National Income, 1880–1913. Clarendon Press, Oxford. 1920. 27 pp.

A statistical examination undertaken in view of the interest in the new distribution of income brought about by the war, and of the consequent necessity for examining the methods hitherto in force for dividing the product of labour.

Lawrence, F. W. Pethick. A Levy on Capital. (*Vide infra*, p. 577.)

Discusses pre-war distribution of wealth and changes experienced during war.

Stamp, J. C. British Incomes and Property. P. S. King & Son. 1916.

Vide infra, pp. 541–2.

[1] *Vide* also LABOUR: WAGES, § V, A, 4, *infra*, pp. 399–406. For the general position as regards national income and finance, *vide* FINANCE, § VII, *infra*, pp. 527 *et seq.*

II. ADMINISTRATION

A. MACHINERY OF GOVERNMENT[1]

℄ *Acts of Parliament :*

Air Force (Constitution) Act, 1917. 7 & 8 Geo. V. c. 51. 24 pp.

Provides for establishment of Air Council and transfer to it of powers of Air Board.

Ministry of Agriculture and Fisheries Act, 1919. 9 & 10 Geo. V. c. 91. 7 pp.

Ministry of Food (Continuance) Act, 1920. 10 & 11 Geo. V. c. 47. 4 pp.

Ministry of Health Act, 1919. 9 & 10 Geo. V. c. 21. 9 pp

Provides for establishment of Ministry of Health for England and Wales, and makes the Chief Secretary responsible for public health administration in Ireland.

Ministry of Munitions Act, 1915. 5 & 6 Geo. V. c. 51. 2 pp.

Ibid., 1918. 8 & 9 Geo. V. c. 60. 1 p.

Ministry of National Service Act, 1917. 7 Geo. V. c. 6. 1 p.

Ministry of Pensions Act, 1916. 6 & 7 Geo. V. c. 65. 3 pp.

Ministry of Transport Act, 1919. 9 & 10 Geo. V. c. 50. 30 pp.

Naval and Military War Pensions, &c., Act, 1915. 5 & 6 Geo. V. c. 83. 7 pp.

Provides for establishment of War Pensions Statutory Committee.

Naval and Military War Pensions, &c. (Transfer of Powers) Act, 1917. 7 & 8 Geo. V. c. 37. 3 pp.

Provides for dissolution of War Pensions Statutory Committee and transfer of its powers to Minister of Pensions.

New Ministries and Secretaries Act, 1916. 6 & 7 Geo. V. c. 68. 5 pp.

Provides for establishment of Ministry of Labour, Ministry of Food, Ministry of Shipping, and Air Board (with status of a Ministry).

New Ministries Act, 1917. 7 & 8 Geo. V. c. 44. 2 pp.

Provides for establishment of Ministry of Reconstruction. Enables Ministers without Office to sit in House of Commons.

Scottish Board of Health Act, 1919. 9 & 10 Geo. V. c. 20. 7 pp.

War Pensions Act, 1920. 10 & 11 Geo. V. c. 23. 5 pp.

Provides for re-transfer to other bodies of powers acquired by Ministry of Pensions.

℄ *Official Publications :*

Board of Trade. Reorganization of the Bd. of Trade, Memorandum with respect to. 1918, Cd. 8912, vol. 29. 7 pp.

Describes scheme for reorganization of the Board. Appendix contains list of temporary departments and executive authorities connected with the Board for war purposes.

Civil Service Arbitration Board. Awards and Agreements, May 1, 1917 to Aug. 1, 1919. Record of Proceedings for 1917.

Vide infra, p. 425.

Civil Service Commission. Annual Reports. — (Report, 1914) 1914–16, Cd. 7983, vol. 12. xxv + 72 pp. — (Report, 1915) 1916, Cd. 8257, vol. 6. 19 pp. — (Report,

[1] For accounts of the work of the different Ministries, *vide* under the special subject (e. g. BLOCKADE, FOOD, MUNITIONS, &c.). For establishment of Whitley Councils in Civil Service, *vide* INDUSTRIAL COUNCILS, § V, A, 7, b, *infra*, pp. 441–2. For employment of women in Civil Service, *vide* § V, D, 1, d, *infra*, pp. 493–4.

1916) 1917–18, Cd. 8593, vol. 8. 17 pp. — (Report, 1917) 1918, Cd. 9056, vol. 7. 12 pp. — (Report, 1918) 1919, Cmd. 214. 37 pp. — (Report, 1919) 1920, Cmd. 887. 60 pp.

Deal with examinations (number and results, &c.), engagement of temporary clerks (method and number), &c.

Commissions and Committees. Commissions and Committees set up to deal with Public Questions arising out of the War, Lists of. 1914–16, Cd. 7855, vol. 55. 4 pp. 1916, Cd. 8256, vol. 23. 8 pp. 1917–18, Cd. 8741, vol. 38. 12 pp.

Committees. Ministry of Labour, Ministry of Agriculture, and Royal Commission on Sugar Supplies, Reports of Committees appointed to investigate the Staffing and Methods of Work of. 1920, Cmd. 1069. 35 pp.

Discusses organization, methods of work and staff.

Ministry of National Service. Number of persons employed in Government Departments at the outbreak of war and at the present time, number who have joined the forces, and number of men of military age . . . still retained on their civil duties, Return of. 1918, No. 76, vol. 16. 6 pp.

Ministry of Reconstruction. Advisory Bodies (other than Reporting Committees) appointed by the Minister of Reconstruction, Statement with regard to. 1918, Cd. 9195, vol. 26. 10 pp.

Gives constitution, functions and names of members of the various bodies.

—— Commissions and Committees set up to deal with Questions which will arise at the close of the War, List of. 1917–18, Cd. 8916, vol. 38. 34 pp.

—— Machinery of Government Committee, Report of. 1918, Cd. 9230, vol. 12. 80 pp.

Discusses functions of Cabinet, need for more careful formulation of policy, departmental organization, parliamentary control, and generally principles which should govern distribution of functions between various departments. Examines the business of the principal departments and indicates how principles suggested should be applied.

—— Reconstruction Problems. No. 38. The Business of Government. Pt. I. The Central Machinery. 26 pp. Pt. II. The Work of the Departments. 29 pp. Pt. III. The Civil Service. 37 pp. H.M.S.O., 1919.

I. Discusses problems of Government administration and the report and recommendations of the Committee on Machinery of Government (Cd. 9230). II. Describes functions of Government Departments before war and expansion during war by creation of new departments or additions to existing departments, and discusses how far war expansion is likely to be permanent, and what would be the effect of above-mentioned Committee's recommendations in re-allocation of departmental functions. III. Gives historical account of Civil Service up to 1914, and discusses problems of post-war administration and recommendations of Committee on Recruitment for Civil Service (Cmd. 34, &c., *vide infra*, under TREASURY).

—— Work of the Ministry of Reconstruction for the period ending Dec. 31, 1918, Report on. 1918, Cd. 9231, vol. 13. 46 pp.

Describes appointment of Reconstruction Committees and Ministry of Reconstruction, organization of the latter, and work of the various branches. Appendices contain lists of members and terms of reference of Committees appointed in connexion with Reconstruction Committees, Committees appointed by Ministry of Reconstruction, Advisory Council, &c.

Ministry of Shipping. Cost, Work, and Staff of the Ministry of Shipping and the Ministry of

Munitions, Memorandum on. 1920, Cmd. 1055.

Vide infra, p. 90.

Treasury. Expenditure, present and pre-war, Memorandum on, with particulars of Government Staffs at certain dates. 1920, Cmd. 802. 6 pp.

Gives staffs of the various departments before war, at Armistice, and Ap. 1 and Oct. 1, 1919, and Ap. 1 and June 1, 1920.

—— Ex-service men, appointment of, to posts in the Civil Service, Report of Committee on. H.M.S.O. 1920. 10 pp.

Discusses the manner in which ex-service men should be substituted for non-service men and women.

—— Ex-service men, Statements relating to the employment of, in Government offices on July 1, 1919 and Feb. 1, 1920, March 1, &c. (monthly to Oct. 1, 1920). 1920, Cmd. 598, 644, 685, 712, 797, 868, 921, 989, 1033. 1 p. each.

Give numbers of ex-service men, disabled and others, in different Government departments.

—— New Departments or new sub-departments of permanent offices that have been created since the outbreak of war and that are now in existence, Return of. 1918, No. 114, H. L. 44 pp.

Gives list of new departments, &c., with date of creation and names and remuneration of heads and principal officers.

—— Organization and Staffing of Government Offices, Committee appointed to enquire into. 1st to 4th Interim Reports and Final Report. 1918, Cd. 9074, 9219, 9220, vol. 7. 8 pp., 1 p., 26 pp. 1919, Cmd. 61, 62. 12 pp., 8 pp.

Describes the position of the various Government Departments as regards methods of recruitment, hours and wages, numbers of staff, excessive overtime, useless work performed, overlapping between Departments, &c. Recommendations made for better organization, resumption of Treasury control, &c.

—— Recruitment for the Civil Service after the War, Committee appointed to consider certain questions with regard to. 1st, 2nd, 3rd, and Final Reports. 1919, Cmd. 34, 35, 36, and 164. 6 pp., 5 pp., 7 pp., and 15 pp.

Interim reports discuss the question of employment of ex-service men in Civil Service. Final report deals with general question of method of recruitment for permanent Civil Service after war and extension of employment of women; discusses how far employment of women during war has been a success.

—— Staffs of Government Departments on Aug. 1, 1914, Nov. 11, 1918 and Mar. 31, 1919, Statement showing. 1919, Cmd. 276. 6 pp. — *Ibid.* on July 1, Aug. 1, 1919, &c. (monthly to Nov. 1, 1920). 1919, Cmd. 316, 343, 379, 380, 448; 1920, Cmd. 533, 546, 584, 643, 690, 711, 821, 879, 935, 981, 1032, 1059. 3 pp. each.

¶ *Books and Periodicals:*

Adkins, W. Ryland D. 'National Unity and the Coalition,' in *C. R.*, June 1916 (vol. 109), pp. 681–9.

Defends the Coalition. Discusses reasons for criticism of it, changes in public opinion, &c.

Beveridge, Sir Wm. H. The Public Service in War and Peace. Constable & Co. 1920. viii + 63 pp.

Discusses the changes that have affected the Civil Service during the war. Forecasts position and responsibilities of public service of the future and makes suggestions, largely based on war experience, for guiding principles.

Carnegie Endowment for International Peace. British War Administration. *Vide* FAIRLIE, JOHN A., *infra*, p. 93.

Davenport, E. H. Parliament and the Taxpayer.

Vide infra, p. 534.

Edinburgh Review, Ap. 1918 (vol. 227), pp. 383–91. 'The Power of the Press.' (Editorial Article.)

Argues that, under non-party system of Government, control by the Press is naturally substituted for control by caucus.

Fairlie, John A. British War Administration.

Vide infra, p. 93.

Hobhouse, Charles. 'The House of Commons and the War,' in *C. R.*, Aug. 1916 (vol. 110), pp. 180–7.

Discusses attitude of House of Commons, its abstention from criticism of Executive, &c.

Labour Year Book, 1919. (*Vide infra*, pp. 369–70.)

Pp. 147–53, 'The British Constitution during the War.' Describes changes introduced in first three years of war, and examines the way in which the principles of the control of the Executive by Parliament and the Rule of Law have been impaired.

Lough, Thomas. 'Parliament during the War,' in *C. R.*, May 1917 (vol. 111), pp. 607–17.

Discusses conditions under which War Parliament is working, curtailment of functions and privileges, deterioration of efficiency.

MacNeill, J. G. Swift. 'Dismantling the British Constitution,' in *C. R.*, Dec. 1917 (vol. 112), pp. 620–7.

Discusses formation and procedure of the War Cabinet and decline of Parliamentary control.

Mallet, Sir Charles E. 'The Value of Parliament,' in *C. R.*, Ap. 1917 (vol. 111), pp. 448–57.

Discusses proposals made for alternatives to Parliamentary government (e. g. government by commissions of business men, or government by Press), and reasons for alleged present inefficiency of Parliament. Advocates continuance of party system.

Piggott, Sir Francis. 'The Passing of the Cabinet,' in *N. C.*, Feb. 1917 (vol. 81), pp. 281–8.

Argues that Cabinet system has passed away for good, and discusses advantages of the new system.

Rafferty, F. W. 'Emergency Administration,' in *C. R.*, July 1919 (vol. 116), pp. 65–71.

Discusses the emergency methods adopted, the employment of voluntary workers and the value of their work, contrasts in discipline in different departments, lack of co-operation between departments, &c.

Spender, Harold. 'Coalition or ——?', in *C. R.*, May 1916 (vol. 109), pp. 556–63.

A defence of the Coalition as the only possible form of war government.

—— 'The British Revolution,' in *C. R.*, May 1917 (vol. 111), pp. 598–606.

Discusses and defends Lloyd George's experiments on the British Constitution.

Williams, Orlo. 'The War Office from the Inside,' in *N. R.*, July 1919 (vol. 73), pp. 734–41.

Describes, from personal experience during the war and since, the methods of working of the War Office.

B. GOVERNMENT REGULATION AND CONTROL.

¶ *Acts of Parliament :*

Articles of Commerce (Returns, &c.) Act, 1914. 4 & 5 Geo. V. c. 65. 2 pp.

Gives Board of Trade power to take possession of goods unreasonably withheld.

Defence of the Realm Act, 1914. 4 & 5 Geo. V. c. 29. 1 p.

Defence of the Realm (No. 2) Act, 1914. 4 & 5 Geo. V. c. 63. 1 p.

Defence of the Realm Consolidation Act, 1914. 5 Geo. V. c. 8. 2 pp.

Defence of the Realm (Amendment) Act, 1915. 5 Geo. V. c. 34. 1 p.

Defence of the Realm (Amendment) (No. 2) Act, 1915. 5 Geo. V. c. 37. 1 p.

Defence of the Realm (Amendment) (No. 3) Act, 1915. 5 & 6 Geo. V. c. 42. 2 pp.

Defence of the Realm (Acquisition of Land) Act, 1916. 6 & 7 Geo. V. c. 63. 14 pp.

Ibid., 1920. 10 & 11 Geo. V. c. 79. 4 pp.

Indemnity Act, 1920. 10 & 11 Geo. V. c. 48. 7 pp.

Provides for restrictions on the taking of legal proceedings against persons acting in the public interest, and for compensation in respect of requisitioned ship-room or other direct loss or damage.

Profiteering Acts. *Vide infra*, p. 583.

Summer Time Act, 1915. 6 & 7 Geo. V. c. 14. 1 p.

Termination of the Present War (Definition) Act, 1918. 8 & 9 Geo. V. c. 59. 1 p.

War Emergency Laws (Continuance) Act, 1920. 10 Geo. V. c. 5. 14 pp.

¶ *Official Publications :*

Manual of Emergency Legislation, comprising all the Acts of Parliament, Proclamations, Orders, &c., passed and made in consequence of the war, to Sep. 30, 1914. xi + 572 pp. Supplements Nos. 2 (incorporating No. 1), 3 and 4, revised to Dec. 5, 1914, Ap. 30, and Aug. 31, 1915, respectively. Ed. by Alex. Pulling. H.M.S.O.

Contain notifications of a state of war; emergency Statutes, Proclamations, &c., *re* financial measures, control of railways, contraband and blockade, requisitioning of shipping, exportation of warlike stores, trading with enemy, &c.; Defence of the Realm Regulations.

Manuals of Emergency Legislation. Defence of the Realm Manual. 1st to 8th editions. Revised to July 28 and Nov. 30, 1916, Feb. 28 and May 31, 1917, Feb. 28 and Aug. 31, 1918, March 31 and Sep. 1919, respectively. 1st five editions edited by Alex. Pulling, 6th and subsequent editions by Sir Charles Cook. H.M.S.O.

Contain Defence of the Realm Acts and Regulations and Orders of a general character made under the Regulations. 5th and subsequent editions do not contain Orders as to war materials supplies or Orders by Board of Agriculture (*re* food production) or Food Controller, which are published in separate Manuals (*vide infra*).

—— Defence of the Realm Regulations. Frequent editions published (monthly during a great part of the war). H.M.S.O.

—— Food Supply Manuals.
Vide infra, pp. 177–9.

—— War Materials Supplies Manual. 1st to 5th editions. Revised to Feb. 28, May 31, and Dec. 31, 1918; June 30 and Dec. 31, 1919. 1st two editions edited by Alex. Pulling; 3rd, 4th, and 5th, by Sir Charles Cook. H.M.S.O.

Contain (Pt. I) powers of Admiralty, Army Council, Ministry of Munitions, Board of Trade, &c., with regard to war materials supplies Orders; (Pt. II) text of Orders *re* war materials supplies; (Pt. III) Priority of work Orders. Give alphabetical tables of all articles falling under the head of war supplies (i. e.—besides metals and munitions—chemicals,

cotton, glass, flax, hemp, jute and linen yarns, leather, paper, petrol, timber, wool and worsted, &c.), the Department dealing with them and Orders made. (Orders date from 1915. For any regulations before this date see Manual of Emergency Legislation, Sep. 1914, and Supplements).

Parliamentary Debates. Official Report. House of Commons, 5th Series, vol. 65 *et seq.* House of Lords, 5th Series, vol. 17 *et seq.* H.M.S.O.

Statutory Rules and Orders. 1914 (3 vols.), 1915 (3 vols.), 1916 (3 vols.), 1917, 1918 (2 vols.), 1919 (2 vols.). Index to the S. R. O. in force on Dec. 31, 1915, showing the statutory powers under which they are made. Index to the S. R. O., in force on Dec. 31, 1919. H.M.S.O.

Contain Rules and Orders made by Government Departments under Acts of Parliament, also certain Proclamations and Orders in Council issued in connexion with the war which were published in 'S. R. O.' form. Contain Defence of Realm Regulations but not Orders made by Government Departments under powers conferred by these regulations (which are printed in Manuals of Emergency Legislation, *vide supra*).

Admiralty. Navy, Appropriation Accounts, with Report of Comptroller and Auditor-General. — (Acct. for 1914–15) 1916, No. 10, vol. 17. 27 pp. — (Acct. for 1915–16) 1917–18, No. 39, vol. 19. 24 pp. — (Acct. for 1916–17) 1918, No. 21, vol. 11. 21 pp. — (Acct. for 1917–18) 1919, No. 56. 68 pp. — (Acct. for 1918–19) 1920, No. 53. 73 pp. — Appendix to Navy Appropriation Accounts for 1914–15, 1915–16, 1916–17. 1919, Cmd. 111. 41 + 40 + 38 pp.

These should be read in conjunction with Reports of Committee of Public Accounts, *infra*.

Admiralty, &c. Names of certain ineligible Government Contractors, Return of. 1919, Cmd. 107. 4 pp.

Gives names and particulars of offences (mainly in connexion with supply of war materials) of Government contractors placed on black list.

Board of Trade. *Bd. of Trade Journal*, May 16, 1918 (vol. 100), pp. 594–5. 'Purchases for the Allied Governments. The Commission Internationale de Ravitaillement.'

Describes work of the Commission in co-ordinating purchases of munitions, military and naval equipment, and food supplies.

Commissions, Royal. Defence of the Realm Losses Royal Commission. Annual Reports. — (1st Report, 1915–16) 1916, Cd. 8359, vol. 7. 8 pp. — (Schedule to 1st Report) 1918, Cd. 9048, vol. 8. 34 pp. — (Report, 1916–17) 1917–18, Cd. 8751, vol. 10. 44 pp. — (Report, 1917–18) 1918, Cd. 9181, vol. 8. 52 pp. — (Report, 1918–19) 1919, Cmd. 404. 53 pp. — (Report, 1919–20) 1920, Cmd. 1044. 39 pp.

Describe principles on which compensation has been awarded for loss incurred through interference of Government with property or business. Give reports of typical cases and schedule of all applications heard, with awards made.

—— Sir John Jackson, Ltd., Report of Royal Commission *re.* 1917–18, Cd. 8518, vol. 15. 10 pp.

Investigates allegations made against the firm (in 2nd Report of Committee of Public Accounts, 1916) and terms of arrangement made by War Office with the firm for erection of huts.

Committees. Commercial Committee of House of Commons. Report of Special Sub-Committee

Committees (*cont.*)

on Government distribution and overseas purchase of commodities, 1917.[1]

Discusses objections raised to methods adopted by various Departments. Blames Government for not employing existing channels of trade.

—— Government works at Cippenham, Joint Select Committee on. Report, with proceedings of the Committee, Minutes of Evidence and Appendices. Index and Digest of Evidence. 1919, No. 131 and 131-Ind. (No. 90, H. L.). xviii + 236 pp.

Discusses justification for establishment of depôt during war and for decision for its continuation after Armistice, suitability of site, &c. Evidence deals with need for dépôt for repair of mechanical transport, long departmental delays in getting scheme started, working of priority committees, difficulties in obtaining labour, methods of employment of contractors. Gives a good deal of information as to methods of procedure of Government departments.

—— National Expenditure, Select Committee on, 1917. Special Report and Reports, with proceedings of the Committee. 1917–18, Nos. 125, 151, 167, 188, vol. 3. 65 pp. (Four Reports paged consecutively.)

—— *Ibid.*, 1918. Reports, with proceedings of the Committee, and Minutes of Evidence taken before the Sub-Committee on the form of Public Accounts. Index and Digest of Evidence. 1918, Nos. 23, 30, 59, 80, 92, 97, 98, 111, 121, 132, and Nos. 23, &c.-Ind., vol. 4. 335 pp.

—— *Ibid.*, 1919. Reports, with proceedings of the Committee, Minutes of Evidence and Appendices. 1919, Nos. 113, 142, 168, 238, 245. lxx + 34 pp.

—— *Ibid.*, 1920. Reports, with proceedings of the Committee, Minutes of Evidence and Appendices. Index. 1920, Nos. 100, 118, 138, 150, 172, 183, 209, 248, and 100, &c.-Ind. cxxx + 153 pp.

These Reports contain discussions and criticisms of the operations of the various Government departments, with some account of their work in regulating and controlling industry.

—— Public Accounts, Committee of, 1916. 1st and 2nd Reports, with proceedings of the Committee, Minutes of Evidence and Appendices. Index and Digest of Evidence. 1916, No. 115, 115-Ind., vol. 3. xlviii + 373 pp.

—— *Ibid.*, 1917. Report, with proceedings of the Committee, Minutes of Evidence and Appendices. Index and Digest of Evidence. 1917–18, No. 123, 123-Ind., vol. 3. xxxii + 223 pp.

—— *Ibid.*, 1918. Report, with proceedings of the Committee, Minutes of Evidence and Appendices. Index and Digest of Evidence. 1918, No. 100, 100-Ind., vol. 3. xxxviii + 256 pp.

—— *Ibid.*, 1919. 1st, 2nd, and 3rd Reports, with proceedings of the Committee, Minutes of Evidence and Appendices. Index and Digest of Evidence. 1919, No. 223, 223-Ind. xlii + 394 pp.

—— *Ibid.*, 1920. 1st to 4th Reports with proceedings of the Committee, Minutes of Evidence and Appendices. Index. 1920, No. 231, 231-Ind. xlix + 441 pp.

These Reports deal with the accounts, expenditure, procedure *re* contracts, &c., of the various Government Departments, Treasury control, &c. Contain a good

[1] This Report, of a private Committee, is no longer procurable. The Report, but not the memoranda on separate industries which form the Appendix, is reprinted in *Timber and Wood-working Machinery*, Dec. 8, 1917, pp. 723, 732.

deal of information as to the war-time regulation and control of industry and trading activities of Government departments. Evidence is based on the Appropriation Accounts of the Army (*vide infra*, p. 92), Civil Services (*infra*, p. 90), Ministries of Food (*infra*, p. 181), Munitions (*infra*, p. 233) and Shipping (*infra*, p. 354), Navy (*supra*, p. 85), and Vote of Credit (*infra*, p. 91), which should be read in conjunction with these reports; see also the Memorandum on War Office Contracts (*infra*, p. 92).

Ministry of Food. Appropriation Accounts.

Vide infra, p. 181.

Ministry of Information. Appropriation Account, 1918–19, with report of the Comptroller and Auditor-General. 1920, No. 115. 6 pp.

Discusses expenditure of the Ministry.

Ministry of Munitions. Appropriation Accounts.

Vide infra, p. 233.

—— Cost, Work, and Staff of the Ministry of Shipping and the Ministry of Munitions, Memorandum on. *Vide* under MINISTRY OF SHIPPING, *infra*.

—— Surplus Property held by Government Departments and disposed of, Statement of receipts, &c., in respect of, to Mar. 31, 1920, together with a statement of sales (approximate figures) from Ap. 1 to June 30, 1920. 1920, Cmd. 850. 16 pp.

Describes formation and functions of Disposal Board, methods of selling, &c., with statistics of receipts. Deals with various kinds of stores.

—— Trading Accounts, with reports thereon, to Mar. 31, 1919, of the Raw Materials administered during the war by the Surveyor-General of Supply at the War Office and subsequently transferred to the Ministry of Munitions. 1920, Cmd. 788. 135 pp.

Should be read in conjunction with *Memorandum on War Office Contracts*, Cd. 8447 (*vide* WAR OFFICE, *infra*). Describes operations in raw materials during period of Government control and transition period (methods of purchase and distribution and price-fixing, course of prices, profits of Department, &c.), with trading accounts and amount of materials purchased and equipment manufactured from commencement of operations to March 31, 1919.

Ministry of Reconstruction. Reconstruction Problems, No. 6. Raw Materials and Employment. H.M.S.O., 1918. 18 pp.

Discusses prospects as regards supplies of raw material and employment in various industries on close of war and describes organization set up for post-war allocation of supplies.

Ministry of Shipping. Appropriation Accounts.

Vide infra, p. 354.

—— Cost, Work, and Staff of the Ministry of Shipping and the Ministry of Munitions, Memorandum on. 1920, Cmd. 1055. 14 pp.

Gives statement of receipts and expenditure of the two Ministries for 1919–20 and 1920–21, an account of the work done since Armistice and position as regards staff. States briefly the position with regard to the trading accounts of the Ministry of Munitions since publication of Cmd. 788 (*supra*).

Treasury. Civil Services and Revenue Departments, Appropriation Accounts, with Report of Comptroller and Auditor-General. —(Account for 1914–15) 1916, No. 423, vol. 42. 508 pp.—(Account, 1915–16) 1917–18, No. 9, vol. 21. 453 pp. — (Account, 1916–17) 1917–18, No. 186, vol. 21. 395 pp. —(Account, 1917–18) 1919, No. 7. 400 pp.—(Account, 1918–19) 1920, No. 10. 422 pp.

Treasury (*cont.*)

These should be read in conjunction with Reports of Committee of Public Accounts, *supra.*

—— Companies, registered, Return showing the amount of public money invested in, by H.M. Government; the names of the companies . . . and the date when the different investments were made. 1920, No. 180. 3 pp.

Gives investments made by different Government Departments, nearly all since outbreak of war.

—— Contracts, co-ordination of departmental action *re*, Standing Committee on (The Colwyn Committee). 1st Report. 1918, Cd. 9179, vol. 7. 3 pp.

Describes types of contracts in use, and makes recommendations as to future procedure. (2nd Report not published. Deals with matters of detail as to examination of books, &c.)

—— Vote of Credit. Appropriation Accounts of the sums granted by Parliament to pay expenses incurred on measures taken for security of the country . . . with Report of Comptroller and Auditor-General.—(Account, 1914–15) 1916, No. 24, vol. 27. 13 pp.—(Account, 1915–16) 1917–18, No. 54, vol. 19. 13 pp.—(Account, 1916–17) 1918, No. 38, vol. 15. 24 pp.—(Account, 1917–18) 1919, No. 97. 37 pp.—(Account, 1918–19) 1920, No. 116. 47 pp.

Give statements of receipts and expenditure, with comments by Comptroller, *re* sugar supply, meat supply, loans to Dominions, &c., Foreign Trade Debts Committee, payments to Railway Executive Committee, Trade Fair, war refugees, repayments to Bank of England in connexion with maintenance of credit, timber supplies, Central Control Board (Liquor Traffic), raw materials controlled by Army Council and Ministry of Munitions, War Savings Committee, food production, Wheat Commission, canals compensation, Petrol Control Committee (Ireland), &c. Should be read in conjunction with the Reports of Committee of Public Accounts, *supra.* *Vide* also Vote of Credit, Trading Accounts, Cmd. 1062, *infra.*

—— *Ibid.* Trading Accounts and Balance Sheets for certain services administered by Government Departments for the conduct of naval and military operations, for assisting the food supply, &c. 1920, Cmd. 1062. 108 pp.

Gives trading accounts of the various Departments, with explanatory notes. (Vote of Credit Appropriation Account, 1918–19, *vide supra*, comments on these accounts.)

War Cabinet. Report for 1917. 1918, Cd. 9005, vol. 14. xx + 235 pp. — Report for 1918. 1919, Cmd. 325. xv + 339 pp.

Give an account of administrative organization, inter-allied organization, blockade measures, war-time work of the various departments, control of industry and transport, import restrictions, food production and control, reconstruction, war finances, &c.; also (in Report for 1918) demobilization of munition workers, disposal of national factories, &c.

War Office. Army, Appropriation Accounts, with Report of Comptroller and Auditor-General.—(Account for 1914–15) 1916, No. 7, vol. 17. 104 pp.—(Account, 1915–16) 1917–18, No. 34, vol. 19. 83 pp. — (Account, 1916–17) 1918, No. 15, vol. 15, 82 pp.—(Account, 1917–18) 1919, No. 32. 73 pp.—(Account, 1918–19) 1920, No. 41. 90 pp.

These should be read in conjunction with Reports of Committee of Public Accounts, *supra.*

—— War Office Contracts, Memorandum on, June 1917. 1917–18, Cd. 8447, vol. 19. 27 pp.

Valuable paper, handed in to Committee of Public Accounts, 1917, by Mr. U. F. Wintour, Director of Army Contracts. Describes policy adopted by the Department as regards control and purchase

(generally and as regards wool, leather, jute, flax and hemp, food and forage supplies, clothing, wire, cutlery, medicines and chemicals), the contract procedure for building work, and the organization of supplies for allied Governments. Gives a list of Committees advising the Department. (For continuation of account, *vide* MINISTRY OF MUNITIONS, Trading Accounts, Cmd. 788, *supra.*)

¶ *Books and Periodicals :*

Carnegie Endowment for International Peace. British War Administration. *Vide* FAIRLIE, JOHN A., *infra.*

—— Prices and Price Control in Great Britain and the United States during the World War. *Vide* LITMAN, SIMON, *infra.*

Fairlie, John A. British War Administration. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War. Ed. by David Kinley. Oxford University Press, New York. 1919. xii + 302 pp.

Gives an account of the changes in machinery of administration, noting difficulties encountered and criticisms. Deals with changes in form and working of Cabinet, army and navy administration, Defence of the Realm measures, trade and transport protection and supply measures, agriculture and food control, financial administration, &c.

Gray, Howard L. War-time Control of Industry. Macmillan & Co., New York. 1918. xx + 307 pp.

Traces the phases through which the general control of industry in the United Kingdom has passed, and gives an account of Government war control in the several industries. Compares American and British systems.

Haynes, Talbot. 'Is your Waste worth Reclaiming?', in *System*, May 1918 (vol. 33), pp. 295–9. 'How to save Waste,' in *Ibid.*, Nov. 1918 (vol. 34), pp. 299–302.

Gives a brief account of the work of the National Salvage Council and the ways in which various waste products are being utilized.

Hildesley, Alfred. *Vide* SCOTT, LESLIE and HILDESLEY, ALFRED, *infra.*

Hobson, C. K. 'Economic Mobilisation for War,' in *Sociological Review*, July 1915 (vol. 8), pp. 137–56.

Relates steps taken by Government with regard to finance and industry, and speculates as to permanent effect of the war on the economic organization.

Labour Year Book, 1919. (*Vide infra*, pp. 369–70).

Chap. V (pp. 158–97), 'The State in Industry'. Gives an account of Government control. Describes priority system, control of imports and exports, transport and different industries, and discusses future prospects.

Layton, W. T. 'State Control of Prices and Production in time of War,' in *P. Q.*, May 1915 (No. 6), pp. 70–85.

Discusses advantages and disadvantages of State control.

Litman, Simon. Prices and Price Control in Great Britain and the United States during the World War. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War. Ed. by David Kinley. Oxford University Press, New York. 1920. x + 331 pp.

Pt. I (pp. 1–177) deals with Great Britain. Shows extent of rise in wholesale and retail prices of chief commodities and discusses various theories of causes of rise. Describes enquiries into extent and effect of profiteering. Discusses financial position of the working-classes. Describes Governmental control and fixing of prices for foods and coal. Discusses home production problem and guaranteeing of minimum prices. Reproduces some criticisms of price-fixing.

National Association of Merchants and Manufacturers. Reports of meetings held July 7 (Inaugural Meeting), Sep. 30, and Oct. 21, 1920. 14 Mincing Lane.

Object of the Association, 'to resist State interference with trade.' Speakers urge necessity for removal of Government control, policy of retrenchment and sound currency, &c., quoting instances of Government methods.

National Produce Traders' League. Reports of meetings held Mar. 20, July 22, and Sep. 23, 1919. 248 Corn Exchange Buildings, Manchester, and 14 Mincing Lane, London.

Object of the League, 'the Defence of the Interests of Trade, especially against unnecessary interference by the State.' Speakers urge necessity for removal of State control as regards food and other commodities, quoting instances of Government methods.

Pigou, A. C. 'The Control of Prices during the War,' in *C. R.*, Aug. 1918 (vol. 113), pp. 164–72.

Discusses alternative methods of checking profiteering (by fixing maximum prices or by taxation of excess profits). Describes difficulties encountered and expedients adopted in exercise of price control, giving examples of different methods employed, by Ministry of Munitions, Ministry of Food, &c.

—— 'Government Control in War and Peace,' in *Econ. Jl.*, Dec. 1918 (vol. 28), pp. 363–73.

Deals with Government intervention in production, rationing and price regulation. Discusses whether control should be continued in normal times.

Quail, Jesse. 'Government Control of Industry and Finance,' in *F. R. R.*, Mar. 1917 (vol. 12), pp. 17–33.

Discusses effects of Government control, as detrimental to public interests, the industry concerned and finance.

Savill, Edwin. 'Some notes on the Defence of the Realm (Acquisition of Land) Act, 1916,' in *Trans. Surveyors' Inst.*, Feb. 12 and Mar. 12, 1917 (vol. 49), 1916–17, pp. 105–72 (with discussion).

Discusses points arising out of the Act.

Scott, Leslie and **Hildesley, Alfred.** The Case of Requisition, *re* a Petition of Right of De Keyser's Hotel Ltd. *v.* the King. Clarendon Press, Oxford. 1920. xxiv + 307 pp.

Gives a short history of the case (petition by De Keyser's Hotel for a fair rent for use and occupation of the hotel by the War Office). Discusses, in view of their bearing on the case, the Defence Acts from 1842 onwards, Defence of the Realm Act 1914, right to compensation, Indemnity Act of 1920, &c.

Stokes, Sir Wilfred. 'State Control,' in *Glasgow Herald, Shipbuilding, Engineering and Commerce Supplement*, Dec. 28, 1918, p. 36.

Discusses critically Government control during war in relation to labour, finance, &c.

C. LOCAL GOVERNMENT[1]

¶ *Official Publications :*

Ireland. Local Government Board for Ireland. Annual Reports.—(Report, 1914–15) 1914–16, Cd. 8016, vol. 25. lxx + 422 pp. — (Report, 1915–16) 1916, Cd. 8365, vol. 13. lix pp. — (Report, 1916–17) 1917–18, Cd. 8765, vol.

[1] *Vide* also PUBLIC HEALTH, HOUSING, EDUCATION, and PUBLIC ORDER, §§ I B, I C, I D, I E, *supra*, pp. 3–74, and LOCAL FINANCE, § VII, D, *infra*, pp. 555–8. For administration of poor relief, *vide* under LABOUR: EMPLOYMENT, RELIEF, &c., § V, A, 2, a, *infra*, pp. 373–82.

16. lxiii pp. — (Report, 1917–18) 1919, Cmd. 65. lxx pp.—(Report, 1918–19) 1920, Cmd. 578. lxv pp.

Local Government Board. Annual Reports :—

(Report, 1914–15) Pt. I. Administration of the Poor Law, the Unemployed Workmen Act, and the Old Age Pensions Act. Pt. II. Housing and Town Planning. Pt. III. Public Health, Local Administration, Local Taxation and Valuation. 1916, Cd. 8195, 8196, 8197, vol. 12. 95 pp., 42 pp., 127 pp.

(Report, 1915–16) Pts. I, II, and III. 1916, Cd. 8331, 8309, 8332, vol. 13. 30 pp., 19 pp., 27 pp.

(Report, 1916–17) Pts. I, II, and III. 1917–18, Cd. 8697, vol. 16. 59 pp.

(Report, 1917–18) Pts. I (Public Health, &c.), II (Housing, &c.), and III (Administration of Poor Law, &c.). 1918, Cd. 9157, vol. 11. 72 pp.

(Report, 1918–19) Pts. I, II, and III. 1919, Cmd. 413. 197 pp.

—— Decisions of the Local Government Board, for 1914, 1915, and 1916. Ed. by Wm. A. Casson. Chas. Knight & Co. 1915, &c.

A collection of decisions reprinted from the *Local Government Chronicle* dealing with education, health, housing, poor relief, emergency legislation, and other local government matters.

—— Local Government Law and Legislation, for 1914, &c. Ed. by W. H. Dumsday. Hadden, Best & Co. 1914, &c.

Contains statutes, annotated and explained, digest of cases decided, and circulars, orders and other information relating to jurisdiction of local authorities (in United Kingdom) issued during the year.

Ministry of Health. Annual Report for 1919–20.—Pt. I. Public Health ; Local Administration ; Local Taxation and Valuation. 1920, Cmd. 923. viii + 169 pp.—Pt. II. Housing and Town Planning. 1920, Cmd. 917. 56 pp. —Pt. III. Administration of the Poor Law, &c. 1920, Cmd. 932. 163 pp.—Pt. IV. Administration of National Health Insurance. 1920, Cmd. 913. 130 pp.

Ministry of Reconstruction. Local Government Committee. Report on transfer of functions of Poor Law Authorities in England and Wales. 1917–18, Cd. 8917, vol. 18. 26 pp.

Draws up scheme for transfer of functions of Poor Law Authorities to County and County Borough Councils.

—— Reconstruction Problems. No. 32. Poor Law Reform. H.M.S.O. 1919. 23 pp.

Mainly a historical account of the poor law. Describes proposals in Report of Committee on transfer of functions of Poor Law Authorities (Cd. 8917, *supra*).

Scotland. Local Government Board for Scotland. Annual Reports.—(Report, 1914) 1914–16, Cd. 8041, vol. 16. cxliii + 417 pp. — (Report, 1915) 1916, Cd. 8273, vol. 13. lxx + 111 pp. — (Report, 1916) 1917–18, Cd. 8517, vol. 16. xlii + 19 pp.—(Report, 1917) 1918, Cd. 9020, vol. 11. xliv + 20 pp.—(Report, 1918) 1919, Cmd. 230. xliv + 44 pp.—(Report, 1919) 1920, Cmd. 824. lxvi + 26 pp.

¶ *Journals :*

Local Government Chronicle. Weekly. 3*d.*

Local Government Journal. Weekly. 2*d.*

These contain information with regard to education, housing, poor law administration, public health measures, and other local government matters.

III. INDUSTRY AND COMMERCE

A. GENERAL

1. GENERAL PROGRESS AND POLICY [1]

¶ *Official Publications :*

Law Reports. Reports of Bankruptcy and Company Cases. Ed. by Manson & Spencer. vol. 21 (1914). *Contd. as* Reports of Bankruptcy and Companies Winding-up Cases. Ed. by M. E. Hansell. vol. 1 (1915), &c. Sweet & Maxwell, and Stevens & Sons.

Reports of cases decided in High Court of Justice, Court of Appeal, Privy Council, and House of Lords, with a digest.

—— Reports of Commercial Cases. Ed. by R. F. Stubbing. vol. 20 (1914–15), &c. *The Times*, and Butterworth & Co.

Verbatim reports of cases in various courts and in Court of Appeal.

—— Reports of County Court and Bankruptcy Cases. Vol. 31 (1913–14), &c. Field & Queen (*County Court Chronicle*).

Reports of Appeal cases from County Courts determined in Supreme Court of Judicature.

Board of Trade. Bankruptcy Acts, Annual Reports under. — (Report, 1914) 1914–16, No. 313, vol. 7. 77 pp. — (Report, 1915) 1916, No. 136, vol. 5. 19 pp.— (Report, 1916) 1917–18, No. 135, vol. 5. 18 pp. — (Report, 1917) 1918, No. 122, vol. 6. 16 pp.— (Report, 1918) 1919, No. 179. 50 pp.—(Report, 1919) 1920, No. 187. 51 pp.

Contain statistics, for series of years, as to number of bankruptcies in England and Wales, with summary of particulars *re* failures in Scotland and Ireland.

—— Commercial Intelligence, Advisory Committee on, Report by, with reference to their Proceedings (Oct. 1913 to Oct. 1917). 1917–18, Cd. 8815, vol. 18. 15 pp.

Describes steps taken for development of trade (commercial missions, investigations in overseas markets, &c.), organization of Department of Commercial Intelligence, work of Trade Commissioner service, &c.

—— Commercial Intelligence Committee, Sub-Committee of, on measures for securing the position after the war of certain branches of British Industry. Report and Summaries of Evidence. 1916, Cd. 8181, 8275, vol. 15. 18 pp., 38 pp.

Discusses questions of research, amendments of law *re* patents, &c., improvement of transport facilities, tariffs, &c.

—— Companies, Annual Reports on.—(Report, 1914) 1914–16, No. 295, vol. 13. 133 pp.— (Report, 1915) 1916, No. 134, vol. 6. 31 pp.—(Report, 1916) 1917–18, No. 120, vol. 10. 14 pp. — (Report, 1917) 1918, No. 103, vol. 7. 14 pp. — (Report, 1918) 1919, No. 182. 14 pp. — (Report, 1919) 1920, No. 190. iv + 14 pp.

Contain statistics, for series of years, of numbers, capital, &c., of companies registered in United Kingdom, companies wound up, &c.

—— Financial Facilities for Trade, Report of Committee on. 1916, Cd. 8346, vol. 15. 8 pp.

Recommends formation of British Trade Bank.

[1] *Vide* also GOVERNMENT REGULATION AND CONTROL, § II, B, *supra*, pp. 81–96, and FINANCE : GENERAL, § VII, A, *infra*, pp. 527–44.

—— *Bd. of Trade Journal.* Monthly. 6*d.*

Contains information *re* openings for British trade, trade conditions and financial measures abroad, campaign for capturing enemy trade, Board of Trade exhibitions and British Industries fairs, lists of prohibited imports and exports, &c. Reproduces Government Orders, &c., affecting trade.

—— and **Foreign Office.** Commercial Intelligence, future organization of, Memorandum with respect to. 1917–18, Cd. 8715, vol. 29. 33 pp.

Discusses delimitation of functions to be undertaken by Board of Trade and Foreign Office. Contains memorandum setting out the scheme agreed to for organization of the Commercial Intelligence Department.

British Trade Corporation. Form of declaration in regard to the Charter which the British Trade Corporation is prepared to give under its seal. 1917–18, Cd. 8607, vol. 29. 1 p.

—— Petition of Promoters, Deed of Settlement and Royal Charter of Incorporation, Copy of. 1917–18, Cd. 8567, vol. 29. 29 pp.

Committees. Commercial and Industrial Policy after the War, Committee on. Interim Report on certain essential Industries. 1918, Cd. 9032, vol. 13. 16 pp.—Final Report. 1918, Cd. 9035, vol. 13. 81 pp.

Interim Report describes briefly steps taken by Government with regard to essential industries (dyes, spelter, tungsten, &c.), and makes proposals for future Government assistance (i. e. establishment of a Special Industries Board). Final report reviews position of British trade and industry before war, and makes recommendations with regard to future policy (e. g. as to supply of materials, industrial and commercial organization, fiscal policy, &c.); contains brief incidental references to conditions during war.

—— *Ibid.* Resolutions passed by the Committee on the subject of Imperial Preference, with covering letter to the Prime Minister. 1917–18, Cd. 8482, vol. 23. 4 pp.

Re desirability of stimulating production of food-stuffs, &c., within Empire, and according preferential tariff treatment to such goods.

Conference. Imperial War Conference. Extracts from minutes of proceedings and papers laid before the Conference, 1917. 1917–18, Cd. 8566, vol. 23. 163 pp. —*Ibid.*, 1918. 1918, Cd. 9177, vol. 16. 252 pp.

Discuss post-war policy, e. g. trade commissioner service, constitution of the Empire, development of control of national resources, control of imports from enemy countries after war, imperial preference, development of trade and shipping, &c.

Ministry of Reconstruction. Financial Facilities, Report of Committee on. *Vide* TREASURY and MINISTRY OF RECONSTRUCTION, *infra.*

—— Financial Risks attaching to holding of Trading Stocks, Report of Committee on. 1918, Cd. 9224, vol. 13. 10 pp.

Discusses post-war policy. Makes suggestions for relief of manufacturers in way of taxation in the event of a fall in prices of stocks. Quotes instances of rises in prices of raw materials.

Treasury and Ministry of Reconstruction. Financial Facilities, Report of Committee on. 1918, Cd. 9227, vol. 10. 10 pp.

Discusses arrangements to be made for provision of financial facilities for trade during post-war period (restoration of gold standard, retention of Government supervision of new issues, &c.).

War Cabinet. Government Machinery for dealing with Trade and Commerce, Report of Committee on. 1919, Cmd. 319. 12 pp.

Discusses machinery for commercial

purposes in foreign countries (consular service, &c.) and organization at home (relations between Foreign Office, Board of Trade and Department of Overseas Trade). Appendix describes existing organization.

¶ *Books and Periodicals :*

Austin, Vincent. 'From War to Peace,' in *Production*, Ap. 1919, pp. 32–7.

Touches on the progress during war, and discusses post-war developments and future prospects of various Midland industries.

Cannons, H. G. T. Bibliography of Industrial Efficiency and Factory Management. Geo. Routledge & Sons, London. E. P. Dutton & Co., New York. 1920. viii + 167 pp.

Contains about 3,500 references, mainly English and American, dealing with various aspects of industrial efficiency and factory and office management.

Clark, Sir Wm. H. 'The Work of the Department of Commercial Intelligence of the Board of Trade,' in *Beama Journal*, Ap. 1917 (vol. 3), pp. 71–4.

Describes organization of the Department and special work undertaken during war in developing British foreign trade and especially home industries.

—— 'The Organization of Commercial Intelligence,' in *Jl. Roy. Soc. Arts*, Mar. 22, 1918 (vol. 66), pp. 305–18 (with discussion).

Describes the organization and proposed work of the Department of Overseas Trade (Development and Intelligence).

Davies, A. Emil. The Case for Nationalization. G. Allen & Unwin. 1920. 310 pp.

Discusses modern aspects of nationalization, setting forth in regard to a number of industries, in light of war and post-war experience, the arguments in support of the system.

Gray, Herbert B., and Turner, Samuel. Eclipse or Empire. Nisbet & Co. 1916. x + 316 pp.

Discusses industrial position of Great Britain before the war, comparing it with other countries, especially U.S.A., showing progress of inventions in different trades. Discusses need for improved organization in business, industrial research, &c.

Hobson, J. A. 'The War in its Effect on Work and Wages,' in *F. R.*, Jan. 1915 (vol. 97), pp. 144–54.

Discusses effect of opening phase of the war on trade and industry.

—— 'The Economics of High Productivity,' in *E. R.*, Sep. 1917 (vol. 25), pp. 225–37.

Discusses the effect of increased consumption on production and *vice versa*, in the light of war experience, as a basis for future economic theories. Advocates continuation of re-distribution of income brought about by war.

Jennings, H. J. 'A British Trade Bank,' in *F. R.*, Nov. 1916 (vol. 100), pp. 841–51.

Describes proposal for establishment of a British Trade Bank and need for such a Bank.

Kennedy, J. M. 'The Functions of the Overseas Trade Department,' in *F. R.*, July 1918 (vol. 104), pp. 126–35.

Discusses criticisms directed against the Overseas Trade Department, and urges the indispensability of the Department.

London Chamber of Commerce. The Effect of the War upon Business Transactions. Special Circulars, 1914–15 (Nos. 1–15) and 1916–18 (Nos. 16–31).

Contain Orders, Proclamations and notices of interest to traders. Note action taken by Chamber with regard to questions affecting trading interests.

—— Four Reports of the special Committee on Trade during and after the War. The Doulton Press. 1916 (first three

reports) and 1918 (4th report). 27 pp., 23 pp., 36 pp., and 23 pp.

Discuss proposals for promotion of trade and home industries, tariff protection, industrial and commercial organization, State aid, &c.

Martin, Percy F. 'Financial Facilities for Trade,' in *System*, Ap. 1918 (vol. 33), pp. 257–61.

Discusses what the British Trade Bank is doing and can do to assist traders, attitude of the banks towards it, &c.

Money, L. Chiozza. 'British Trade and the War,' in *C. R.*, Oct. 1914 (vol. 106), pp. 470–82

Discusses prophecies on outbreak of war as to industrial and commercial collapse of United Kingdom, capture of German trade, &c.

—— 'The War and British Industry,' in *F. R.*, Mar. 1915 (vol. 97), pp. 527–38.

Discusses certain beneficial effects of the war on British industry.

Palgrave, R. H. Inglis. 'The British Trade Corporation,' in *Q. R.*, Jan. 1918 (vol. 229), pp. 143–53.

Describes constitution, &c., of the Corporation, and discusses ways in which it may be of use.

Paton, W. A. The Economic Position of the United Kingdom. 1912–18. *Vide* U.S.A., *infra.*

Shadwell, A. 'Trade and Industry in the War,' in *Ed. R.*, Jan. 1915 (vol. 221), pp. 151–77.

Gives a general account of the effects of the first few months of war on trade and industry of United Kingdom and Continent.

Smart, Wm. 'The Economic Dislocation of the War,' in *Proc. Roy. Phil. Soc. Glasgow*, 1914–15 (vol. 46), pp. 16–36.

Discusses dislocation of demand and supply, destruction of wealth, effect on foreign trade, &c.

Stamp, J. C. 'The Effect of Trade Fluctuations on Profits,' in *Jl. Roy. Stat. Soc.*, July 1918 (vol. 81), pp. 563–608 (with discussion).

Deals mainly with pre-war position. Gives estimate of increase in profits in war-time (1914–17) compared with rise in prices.

Tariff Commission. The War and British Economic Policy. P. S. King & Son. 1915. 174 pp.

Discusses the new financial conditions created by the war. Examines the effect of the war on various industries, the extent of German competition, and prospects of dealing with it after war. Recommends revision of tariff system. Criticizes Government action with regard to trade during war.

Times. Prospectus of Public Companies, &c. Reprinted from advertisement columns of *The Times*. Half yearly. No. 48 (July to Dec. 1914), &c. Times Publishing Co.

—— Results of Public Companies. Reprinted from advertisement columns of *The Times*. Half yearly. vol. 7 (July to Dec. 1914), &c. Times Publishing Co.

Contains company meeting reports and balance sheets.

Turner, Samuel. *Vide* GRAY, HERBERT B. and TURNER, SAMUEL, *supra.*

U.S.A. The Economic Position of the United Kingdom, 1912–18. By W. A. Paton. U.S.A., Department of Commerce: Miscellaneous Series, No. 96. Govt. Printing Office, Washington. 1919. 160 pp.

A review of the position of British industries, shipping, finance, &c., during years mentioned.

Whetham, Wm. Cecil D. The War and the Nation: a Study in Constructive Politics. John Murray. 1917. ix + 312 pp.

Chap. III (pp. 116–69), 'The Organization of British Industry and Commerce'.

Discusses possibility of developing new industries, need for research and co-operation, &c. Deals mainly with future; incidentally shows changed attitude during war.

¶ *Trade Journals:*

British Trade Journal. Monthly. 1*s.* 6*d.*

Deals with matters affecting trade and industry generally, effect of war conditions, state of markets, prices, &c.

British Trade Review. Monthly. 12*s.* 6*d.* per annum.

Notes and articles on matters affecting trade and industry generally, effect of war conditions, reports on individual industries, market reports, &c.

Chamber of Commerce Journal. Monthly. 6*d.*

Articles on state of money market and Stock Exchange, accounts of commercial law cases, parliamentary intelligence, oversea trade reports, foreign commercial and industrial notes, reports of work of Chambers of Commerce, information *re* trade openings, &c. Annual trade review in Jan. on progress of trade generally, finance, commercial law cases, and separate industries.

Commercial Review. Monthly. 5*d.*

Reviews of measures affecting trade organization and work and organization of Government departments dealing with trade matters. Articles on labour questions, commercial law cases, &c. Lists of new companies registered and dividends paid. Very critical of Government.

Compendium. *Vide* NORTH-EAST COAST COMMERCIAL COMPENDIUM.

Economist. Weekly.

Contains frequent articles on trade generally and individual industries. (*Vide infra*, pp. 543–4.)

The Employer. 1918, &c. Monthly. 6*d.*

The official organ of the National Employers' Federation. Discussions on current topics of interest to employers, criticisms of Government measures, notes of work of the Federation, &c.

Glasgow Herald. Annual Supplements (in Dec.) on Shipbuilding, Engineering and Commerce. (*Vide infra*, p. 252.)

Contain general survey of industrial progress, finance, scientific and technical progress, labour situation, &c.

North-East Coast Commercial Compendium. Newcastle-on-Tyne. 1st issue, Jan. 1916. Contd. from Jan. 1917 as *The Compendium.* Monthly. £1 1*s.* per annum.

A monthly digest of market movements and prices current in the coal, metal and shipping trades of the North-East Coast and (from Jan. 1917) in the whole country. Annual supplement (Jan. or Dec.), reviewing trade of the year.

The Organiser. Monthly. 1*s.* 6*d.*

Contains, especially from Feb. 1918, when it was published in enlarged form, good articles and notes on factory equipment and organization, progress and invention, trade combination, industrial councils, labour questions, &c., with a special 'open' Labour Section containing articles by Labour spokesmen.

Production. Journal of the British Empire Producers' Organization. Monthly (from 1917).

Articles on commercial policy, trade prospects and development at home and abroad, criticisms of Government measures, &c. Notes on production, industrial progress, &c., in Empire. Short notes on work of B.E.P.O.

System. Monthly. 2*s.*

Contains articles on effect of war on trade, scientific management, developments in factory and office organization to meet war conditions, &c.

Times. Imperial and Foreign Trade Supplements. Monthly from Ap. 1916. 1*d.*

Contain information on industrial and banking prospects, shipping and transport problems, Dominions trade, commercial openings and conditions of British trade abroad, British trade developments at home, trade policy, customs and excise measures, commercial law cases, labour conditions, &c.

2. EXPORTS AND IMPORTS[1]

¶ *Acts of Parliament :*

Customs (Exportation Restriction) Act, 1915. 5 & 6 Geo. V. c. 52. 1 p.

Customs (War Powers) Act, 1915. 5 Geo. V. c. 31. 2 pp.

Makes it illegal for ships to carry goods whose export has been prohibited.

Customs (War Powers) (No. 2) Act, 1915. 5 & 6 Geo. V. c. 71. 1 p.

Customs (War Powers) Act, 1916. 5 & 6 Geo. V. c. 102. 2 pp.

Overseas Trade (Credits and Insurance) Act, 1920. 10 & 11 Geo. V. c. 29. 2 pp.

¶ *Official Publications :*

Law Reports. Attorney-General *v.* Brown. 1920, 1 K. B. 773. (*Law Times*, May 1, 1920 (vol. 122), pp. 558–63.)

Prohibition of Imports Proclamation, 1919, held to be illegal.

Statutory Rules and Orders, 1914, &c. (*Vide supra*, p. 85.)

Contain Proclamations and Orders with regard to prohibitions of exports and imports.

Board of Trade. Articles of which the Importation into the United Kingdom is prohibited except under licence, Memorandum on. 1919, Cmd. 454. 1 p.

Gives a list of articles of which import is still restricted.

—— Overseas Trade (Credits and Insurance). Memorandum of Expenditure likely to be incurred. 1920, Cmd. 620. 1 p.

Gives a few particulars with regard to schemes for granting credits and undertaking insurance against abnormal risks in connexion with export trade.

—— Trade and Navigation of the United Kingdom, Monthly Accounts relating to.—(Accounts for 1914) 1914, Nos. 88–88. xi, vols. 75–88.—(*Ibid.*, 1915) 1914–16, Nos. 112–112. xi, vols. 67–70.—(*Ibid.*, 1916) 1916, Nos. 38–38. xi, vols. 28–31.—(*Ibid.*, 1917) 1917–18, Nos. 31–31. xi, vols. 31, 32.—(*Ibid.*, 1918) 1917–18, Nos. 189–189. xi, vols. 33, 34.—(*Ibid.*, 1919) 1919, Nos. 18–18. xi. — (*Ibid.*, 1920) 1920, Nos. 25–25. xi.

—— Trade of the United Kingdom with foreign countries and British possessions, Annual Statements of.—(Statement for 1914, vols. I and II) 1914–16, Cd. 7968 and 8069, vols. 64 and 65. xvi + 709 pp., xi + 512 pp. — (*Ibid.*, 1915) 1916, Cd. 8284 and 8357, vols. 25 and 26. xvii + 726 pp., xi + 520 pp. — (*Ibid.*, 1916) 1917–18, Cd. 8632 and 8714, vols. 28 and 29. xv + 697 pp., xi + 520 pp. — (*Ibid.*, 1917) 1918, Cd. 9127 and 9136, vols. 21 and 22. xv + 695 pp., xi + 518 pp. — (*Ibid.*, 1918) 1919, Cmd. 342 and 366. xiv + 697 pp., xi + 514 pp.— (*Ibid.*, 1919) 1920, Cmd. 945 and 1093. xii + 703 pp., xi + 506 pp.

Vols. I contain, for series of five years, detailed statistics as to quantities and values of imports and exports, and articles subject to duty entered for home consumption. Vols. II contain detailed statistics of trade at each port, &c., in United Kingdom, trade with each foreign country and British possession, transhipments under bond, customs revenue at each port, &c.

—— *Bd. of Trade Journal*, Feb. 28, 1918 (vol. 100), pp. 244–5. 'Restrictions of Imports : Effect in Saving Tonnage.'

[1] *Vide* also General Progress and Policy, § A, 1, *supra*.

Board of Trade (*cont.*)

Describes control exercised by Dept. of Import Restrictions.

—— *Ibid.*, Aug. 29, 1918 (vol. 101), pp. 279–80. 'The Regulation of Exports. The War Trade Department: its functions and operations.'

Gives sketch of the history, organization and work of the War Trade Department.

—— *Ibid.*, Dec. 12, 1918 (vol. 101), pp. 736–8. 'War and Export Trade: An analysis, 1913–17.'

Gives figures shewing real fall in exports, distribution of war trade, trade sacrifices.

—— *Ibid.*, 1920 (vol. 104). (1) Jan. 15, pp. 71–3. 'The Balance of Trade: An Estimate of invisible Exports.' (2) Jan. 29, pp. 140–1. 'The Weight of Exports.' (3) Feb. 5, pp. 180–1. 'Our Foreign Trade and Value.' (4) Feb. 26, pp. 318–20. 'Foreign Trade in 1919 at the pre-war values of 1913.'

Compares balance of trade in 1919 with that in 1913, and examines extent to which invisible exports have been affected by war. Estimates weight of British produce and manufactures exported in 1919 compared with 1913, with corresponding figures for 1917 and 1918, and gives details of calculations. (The *Journal* contains, *passim*, other articles on Foreign Trade.)

Ireland. Department of Agriculture and Technical Instruction. Trade in Imports and Exports at Irish ports, Annual Reports of. —(Report, 1914) 1916, Cd. 8208, vol. 26. xxiv + 120 pp.—(Report, 1915) 1917–18, Cd. 8498, vol. 29. xx + 120 pp.—(Report, 1916) 1918, Cd. 9094, vol. 22. xx + 120 pp.—(Report, 1917) 1919, Cmd. 338. xxii + 120 pp. — (Report, 1918) 1919, Cmd. 487. xxii + 118 pp.

Detailed statistics, with introductory comments, of imports and exports between Ireland and Great Britain and foreign countries.

¶ *Books and Periodicals:*

Bowley, A. L. The Effect of the War on the External Trade of the United Kingdom: An Analysis of the monthly statistics, 1906–14. Cambridge University Press. 1915. 55 pp.

Analyses statistics of foreign trade before and since outbreak of war in principal commodities and with different countries.

Edinburgh Review, Ap. 1921 (vol. 233), pp. 287–408. 'The New Protection.' (Editorial article.)

Criticizes continuance of Government control of imports and of industry generally after Armistice. Discusses demand for protection of key industries.

Fayle, C. Ernest. Seaborne Trade.

Vide infra, p. 357.

Hurd, Archibald. 'British Commerce in War-time: The Abuse of Sea Power,' in *F. R.*, Jan. 1916 (vol. 99), pp. 16–32.

Criticizes the unnecessary extravagance in imports and discusses downward trend of exports, decrease of foreign shipping trade, &c.

Jennings, H. J. 'The Balance of Trade in 1916,' in *F. R.*, Feb. 1917 (vol. 101), pp. 302–12.

Discusses statistics of imports and exports, rise of prices, unnecessary luxury imports, &c.

Oldham, C. H. 'Changes in Irish Exports during Twelve Years,' in *Jl. Statistical and Social Inquiry Soc. of Ireland*, Oct. 1919 (part 97, vol. 13), pp. 541–53. 'Changes in Irish Exports,' in *Ibid.*, pp. 629–37.

Examines changes in values of exports,

showing progress of Irish manufactures compared with agricultural products.

Political Quarterly, Mar. 1916 (No. 7), pp. 99–121. 'Trade in War-time.'

Analyses imports and exports for 1913–15, discusses rise in price, and urges restriction of unnecessary imports.

Rosenbaum, S. 'The Effects of War on the Overseas Trade of the United Kingdom,' in *Jl. Roy. Stat. Soc.*, July 1915 (vol. 78), pp. 501–54 (with discussion).

A statistical analysis of the effects of war on exports and imports, Aug. 1914 to April 1915.

3. BLOCKADE AND TRADING WITH THE ENEMY

¶ *Acts of Parliament :*

British Ships (Transfer Restriction) Acts, 1915 and 1916. *Vide infra*, p. 349.

Companies (Foreign Interests) Act, 1917. 7 & 8 Geo. V. c. 18. 2 pp.

Companies (Particulars as to Directors) Act, 1917. 7 & 8 Geo. V. c. 28. 2 pp.

Naval Prize (Procedure) Act, 1916. 6 Geo. V. c. 2. 1 p.

Naval Prize Act, 1918. 8 & 9 Geo. V. c. 30. 5 pp.

Prize Courts (Procedure) Act, 1914. 4 & 5 Geo. V. c. 13. 1 p.

Prize Courts Act, 1915. 5 & 6 Geo. V. c. 57. 2 pp.

Registration of Business Names Act, 1916. 6 & 7 Geo. V. c. 58. 10 pp.

Trading with the Enemy Act, 1914. 4 & 5 Geo. V. c. 87. 4 pp.

Trading with the Enemy Amendment Act, 1914. 5 Geo. V. c. 12. 9 pp.

Trading with the Enemy Amendment Act, 1915. 5 & 6 Geo. V. c. 79. 2 pp.

Trading with the Enemy (Extension of Powers) Act, 1915. 5 & 6 Geo. V. c. 98. 1 p.

Trading with the Enemy Amendment Act, 1916. 5 & 6 Geo. V. c. 105. 7 pp.

Trading with the Enemy (Copyright) Act, 1916. 6 & 7 Geo. V. c. 32. 1 p.

Trading with the Enemy and Export of Prohibited Goods Act, 1916. 6 & 7 Geo. V. c. 52. 2 pp.

Trading with the Enemy Amendment Act, 1918. 8 & 9 Geo. V. c. 31. 8 pp.

¶ *Official Publications :*

Law Reports. Aspinall's Maritime Cases. Vol. 12, N.S. (1912–15). 46 + 608 pp. Vol. 13 (1916–17). 44 + 608 pp. Vol. 14 (1918–20). 560 pp. Ed. by J. B. Aspinall. Field & Queen, 'Law Times' Office.

Contains all the decisions of the Courts of Law and Equity in the United Kingdom relating to maritime law (including requisition, trading with enemy, blockade, contraband, &c.).

—— Lloyd's Reports of Prize Cases. Vol. 1, &c. Ed. by J. B. Aspinall (later by E. L. de Hart). Lloyd's. 1915, &c.

Reports of Prize Cases decided in Probate, Divorce and Admiralty Division, and on appeal by the Judicial Committee of the Privy Council, during European War. Reprinted from Lloyd's List.

—— Prize Cases. Vol. 1. Ed. by E. C. M. Trehern. Vol. 2, &c. Ed. by A. Wallace Grant. Stevens & Sons, Sweet & Maxwell. 1916, 1918, &c.

Contain decisions considered of permanent interest on the law and practice of Prize decided, since outbreak of war, in the Probate, Divorce and Admiralty Division, the Courts of the Overseas Dominions, and on appeal by the Judicial Committee of the Privy Council.

Manual of Emergency Legislation. (*Vide supra*, pp. 83–4.)

Contains Proclamations, &c., issued *re* blockade and trading with the enemy up to Aug. 31, 1915.

Statutory Rules and Orders, 1914, &c. (*Vide supra*, p. 85.)

Contain Proclamations and Orders *re* contraband, trading with the enemy, Prize Courts (jurisdiction and procedure), &c.

Admiralty. Order in Council of Mar. 1915, Report on administration of. *Vide* FOREIGN OFFICE, ADMIRALTY and BOARD OF TRADE, *infra*.

Board of Trade. Companies, Annual Reports on, for 1918 and 1919. (*Vide supra*, p. 100.)

Give number of companies dissolved under Trading with Enemy (Amendment) Act, 1918.

—— Conditions under which trading is permissible since the raising of the blockade. 1919, Cmd. 274 and 350. 3 pp., 1 p. 1920, Cmd. 512. 2 pp.

Give conditions (in July, Sep., and Dec. 1919 respectively) under which trading with enemy and certain neutral countries is now permissible.

—— Order in Council of Mar. 1915, Report on administration of. *Vide* FOREIGN OFFICE, ADMIRALTY and BOARD OF TRADE, *infra*.

—— Trading with the Enemy Amendment Act, 1916, Report of Committee on matters arising under. 1918, Cd. 9059, vol. 13. 6 pp.

Gives an account of action taken with regard to German businesses in England. Shows methods by which Germany had obtained control of British trade.

—— Trading with the Enemy Amendment Act, 1916. Summary of Cases dealt with by the Advisory Committee up to June 2, 1916, inclusive, and of the recommendations made therein. 1916, Cd. 8308, vol. 22. 1 p.

—— Trading with the Enemy (Statutory List) Proclamation, with consolidated statutory list of persons and firms in countries, other than enemy countries, with whom persons and firms in U.K. are prohibited from trading. (With notes for British merchants engaged in foreign trade). H.M.S.O. 1917. *Ibid.*, complete to Ap. 5, May 31, Aug. 9, and Nov. 1918, respectively. 1918.

—— *Bd. of Trade Journal.* (*Vide supra*, p. 101.)

Contains lists of enemy businesses to be wound up, lists of firms with whom trading is prohibited, lists of contraband, Government regulations *re* trading with enemy.

—— and **Ministry of Reconstruction.** Company Law Amendment Committee, Report of. 1918. Cd. 9138, vol. 7. 14 pp.

Discusses amendments of company law on various points, and especially the question of the policy to be pursued with regard to restrictions on employment of foreign capital after the war, and amendments necessary in law if policy of restriction is decided on.

Committees. Commercial and Industrial Policy, Committee on. Interim Report on the Importation of Goods from the present Enemy Countries after the War. 1918, Cd. 9033, vol. 13. 4 pp.

Deals with policy to be pursued.

—— *Ibid.* Interim Report on the treatment of Exports from U.K. and British Overseas pos-

sessions and the conservation of the resources of the Empire during the transitional period after the war. 1918, Cd. 9034, vol. 13. 14 pp.

Discusses prohibition of export of certain commodities to enemy countries after the war.

Conference. Economic Conference of the Allies held at Paris on June 14, 15, 16, and 17, 1916, Recommendations of. 1916, Cd. 8271, vol. 34. 8 pp.

Deal with policy to be pursued by Allies with regard to trading with enemy during war and conservation of national resources and treatment of enemy imports after war.

Foreign Office. Declaration of London Orders in Council, Note addressed by H.M. Government to neutral representatives in London respecting the withdrawal of. 1916, Cd. 8293, vol. 34. 4 pp.

Contains Order in Council of July 7, 1916 (*re* contraband and blockade), and memorandum explaining grounds for issue of the Order.

—— Examination of Parcels and Letter Mails, Memorandum presented by H.M. Government and the French Government to neutral Governments regarding. 1916, Cd. 8223, vol. 34. 7 pp. — Note from U.S. Government *re ibid.* 1916, Cd. 8261, vol. 34. 4 pp. — Note to U.S. ambassador *re ibid.* 1916, Cd. 8294, vol. 34. 4 pp. — Memorandum addressed by the French and British Governments to U.S. Government *re ibid.* 1917–18, Cd. 8438, vol. 38. 10 pp.

—— Germany, Statement of the measures adopted to intercept the sea-borne commerce of. 1914–16, Cd. 8145, vol. 84. 7 pp.

—— Holland, Correspondence respecting the traffic across, of materials susceptible of employment as military supplies. 1917–18, Cd. 8693, 8915, vol. 38. 12 pp., 168 pp.

—— Holland, Report on the export of cement from U.K. to. 1918, Cd. 9023, vol. 26. 8 pp.

Discusses allegations that British cement is being used by Germany.

—— Prizes captured during the present European war, Convention between U.K. and France relating to, signed at London, Nov. 9, 1914. 1914–16, Cd. 7739, vol. 83. 10 pp. — Accession of Russia to the Convention. . . . 1914–16, Cd. 7858, vol. 84. 2 pp. —Exchange of notes between U.K. and France and Russia modifying Art. 2 of the Convention. 1916, Cd. 8401, vol. 34. 1 p. — Accession of Italy to the Convention. 1917–18, Cd. 8475, vol. 38. 2 pp.

—— Rights of Belligerents, Correspondence between H.M. Government and U.S. Government respecting. 1914–16, Cd. 7816, vol. 84. 29 pp. — Further correspondence *re ibid.* 1916, Cd. 8233, 8234, vol. 34. 32 pp., 21 pp.

Re blockade and effect of British action on American trade.

—— Trading with the Enemy (Extension of Powers) Act, 1915, Correspondence with U.S. ambassador respecting. 1916, Cd. 8225, 8353, vol. 34. 2 pp., 7 pp.

—— War Trade Statistical Department. Statistics of Imports into Scandinavia and Holland during 1916 and 1917. 1918, Cd. 8989, vol. 22. 4 pp.

Gives statistics of imports compared with pre-war years, as bearing on the question whether there is leakage to enemy countries.

—— **Admiralty and Board of Trade.** Order in Council of Mar.

1915, Report of Committee on the administration of. 1917–18, Cd. 8469, vol. 16. 7 pp.

Describes machinery adopted for dealing with ships and cargoes brought into British ports under the Order in Council (work of War Trade Department, Contraband Committee, Enemy Exports Committee, &c.), and discusses whether any avoidable delay occurs.

Ministry of Reconstruction. Company Law Amendment Committee, Report of. *Vide* BOARD OF TRADE and MINISTRY OF RECONSTRUCTION.

Public Trustee. Annual General Reports. — (Report, 1914–15) 1914–16, Cd. 7833, vol. 33. 22 pp. — (Report, 1915–16) 1916, Cd. 8241, vol. 15. 19 pp. — (Report, 1916–17) 1917–18, Cd. 8575, vol. 18. 11 pp. — (Report, 1917–18) 1918, Cd. 9121, vol. 12. 12 pp.— (Report, 1918–19) 1919, Cmd. 262. 12 pp. — (Report, 1919–20) 1920, Cmd. 783. 12 pp.

Contain brief accounts of the work of the Public Trustee as custodian of enemy property under Trading with the Enemy Acts.

Treasury. Admiralty Division in Prize, Accounts of receipts and payments of the Assistant Paymaster-General for Supreme Court business on behalf of. —(Accounts, 1914–15) 1916, No. 48, vol. 22. 6 pp.—(Accounts, 1915–16 and 1916–17) 1917–18, Nos. 47, 178, vol. 25. 5 pp., 4 pp.—(Accounts, 1917–18) 1919, No. 20. 4 pp.—(Accounts, 1919–20) 1920, No. 48. 4 pp.

Give receipts and payments in connexion with vessels, freight and cargoes detained or released.

—— Enemy Banks (London Agencies). Report of Sir Wm. Plender to the Chancellor of the Exchequer, Dec. 16, 1916. 1916, Cd. 8430, vol. 5. 32 pp. — 2nd Report, Dec. 13, 1917. 1917–18, Cd. 8889, vol. 5. 25 pp.

Describe operations of London branches of enemy banks under Government control.

—— Enemy Banks in London, Report of Messrs. Walter Leaf and R. V. Vassar Smith, Jan. 12, 1917, on the progress made in discharge of the liabilities of. 1917–18, Cd. 8455, vol. 5. 7 pp.

Discusses present position, since first report of Sir Wm. Plender (*vide supra*, Cd. 8430), and recommends that controller should continue operations.

—— Organization and Staffing of Government Offices, 3rd Interim Report of Committee on. 1918, Cd. 9220. (*Vide supra*, p. 79.)

Contains (pp. 13–17) reports on staffs and organization of the temporary departments connected with the Ministry of Blockade.

—— Vote of Credit. Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Contains (pp. 82–8) trading accounts up to Jan. 1, 1920, of the Restriction of Enemy Supplies Department.

War Cabinet. Reports for 1917 and 1918. (*Vide supra*, p. 92.)

Report for 1917, Chap. IV (pp. 21–24), and Report for 1918, Chap. IV B (pp. 31–34) contain accounts of blockade policy and developments.

War Office. Censorship, Memorandum on. 1914–16, Cd. 7679, vol. 39. (*Vide infra*, p. 599.)

Describes briefly working of the Censorship, one object of which is to prevent trading with enemy.

¶ *Books and Periodicals :*

Aspinall's Maritime Cases. *Vide* LAW REPORTS, *supra*, p. 114.

Censorship and Trade. [Anon.] Eyre & Spottiswoode. 1916. 24 pp.

Discusses controversy with U.S.A. *re* mail censorship. Quotes official statements and correspondence in vindication of British policy.

Committee of Imperial Defence. History of the Great War : Naval Operations. *Vide* CORBETT, SIR JULIAN S., *infra*.

Corbett, Sir Julian S. Naval Operations, vol. 1. (History of the Great War. Based on official documents by direction of the Historical Section of the Committee of Imperial Defence). Longmans, Green & Co. 1920. xiv + 470 pp.

Contains an account of naval and other measures taken to keep trade routes open, and action taken with regard to blockade and contraband.

Fayle, C. Ernest. Seaborne Trade, vol. 1. 1920.

Vide infra, p. 357.

Jastrow, J. Völkerrecht und Wirtschaftskrieg. J. U. Kern's Verlag, Breslau. 1917. 100 pp.

Shows effects of the British blockade on the trade of European neutrals.

Koch, Theodore Wesley. War Libraries and Allied Studies. 1918. (*Vide supra*, p. 61.)

Chap. IV (pp. 229–52), 'British Censorship and Enemy Publications'. Describes working of the British Censorship, correspondence and discussions in Parliament on examination of American mails, checking of German trade by means of postal censorship, &c.

Koch, Waldemar. Handelskrieg und Wirtschaftsexpansion. Gustav Fischer. Jena. 1917. viii + 283 pp.

Pt. I (pp. 3–34) describes anti-German movement in England and colonies, D.O.R.A. Regulations, Black lists, Prize Court rules, censorship measures, treatment of enemy property and firms and of patent and other rights, legal position of enemies in England and colonies, &c. Pt. II (pp. 34–70) deals with promotion of British trade interests, measures for capturing German trade, &c.

Leyland, John. 'The Great Naval Blockade,' in *N. C.*, Feb. 1917 (vol. 81), pp. 260–80.

Gives short historical account and discusses character of present blockade.

Lloyd's Reports of Prize Cases. *Vide* LAW REPORTS, *supra*, p. 114.

Milner, Viscount. Cotton Contraband. Darling & Son. 7 pp.

Reprint of interview given to *New York Times* correspondent, Aug. 21, 1915, explaining British policy with regard to declaration of cotton as contraband.

National Review, Jan. 1919 (vol. 72), pp. 552–67. 'Freedom of the Seas,' by R. N.

Describes developments during war with regard to blockade policy, the changes in practice, the organization set up, rationing system, embargo on exports, &c.

Piggott, Sir Francis Taylor. 'The Neutral Merchant : Three American Notes and the Answers,' in *N. C.*, Ap. 1915 (vol. 77), pp. 729–51.

—— 'The Neutral Merchant and the Freedom of the Sea,' in *Ibid.*, Aug. 1915 (vol. 78), pp. 246–70.

—— 'Our Relations with the United States : Cotton as Contraband of War,' in *Ibid.*, Sep. 1915 (vol. 78), pp. 500–6.

—— 'The Blockade and the Honour of England,' in *Ibid.*, May 1916 (vol. 79), pp. 988–1006.

—— 'Belligerent and Neutral from 1756 to 1915 : A Study of the Development of the Doctrine of "Continuous Voyage"', in *Ibid.*, Sep., Oct., and Nov. 1916 (vol. 80), pp. 471–88, 799–821, 908–30.

—— 'Neutral Merchants and the Rights of War,' in *Jl. Roy.*

Piggott, Sir Francis Taylor (*cont.*) *Soc. Arts.*, May 12, 1916 (vol. 64), pp. 467–79.

These articles discuss Order in Council of March 1915, American attitude, doctrine of ' continuous voyage ', &c.

—— The Neutral Merchant: In relation to the Law of Contraband of War and Blockade under the Order in Council of Mar. 11, 1915. University of London Press. 1915. xvii + 107 pp.

A reprint of articles in *N.C.*, Ap., Aug., and Sep. 1915 (*vide supra*).

Prize Cases. *Vide* LAW REPORTS, *supra*, p. 114.

Pyke, H. Reason. The Law of Contraband of War. Clarendon Press, Oxford. 1915. xv + 314 pp.

Traces origin and development of the principles and practice of the law of contraband. Includes a discussion of the policy adopted 1914–15. Appendix contains Orders in Council and Proclamations, &c., *re* contraband.

Quarterly Review, Jan. 1916 (vol. 225), pp. 267–90. 'The Danish Agreement and the Feeding of Germany.'

Shows how the agreement (with regard to imports into Denmark and re-exports to Germany) came to be made, and examines it from standpoint of international law.

Salter, J. A. Allied Shipping Control.

Vide infra, pp. 361–2.

Schuster, E. and **Wehberg, H.** Der Wirtschaftskrieg. Pt. I. England. Issued by the Königl. Inst. für Seeverkehr und Weltwirtschaft an der Universität Kiel. Gustav Fischer. Jena. 1917. xvi + 398 pp.

Section A (pp. 1–118) deals with treatment of Germans and German property. Gives a detailed account of and criticizes the English and colonial measures for restricting and controlling trade with Germans, their domiciliary rights, businesses, patent and trade-mark rights, prize court rights, &c. Describes measures resorted to for blockade of Germany. The remaining sections of the volume deal with development of British industries, measures taken to promote British trade interests, alteration of British methods of production and protectionist measures adopted.

Wehberg, H. *Vide* SCHUSTER, E., and WEHBERG, H.

4. ORGANIZATION

a. TRADE COMBINATIONS [1]

℄ *Official Publications :*

Board of Trade. Profiteering Acts. Bedsteads, Metal, Report on, by Standing Committee on Investigation of Prices. 1920, Cmd. 607. 6 pp.

Describes methods of working of the Bedstead Makers' Federation and discusses profits. Gives figures of costs of production, profits and prices in Nov. 1919 compared with June 1914.

—— *Ibid.* Boot and Shoe scheme, Standard, Report on, by Standing Committee on Trusts. 1920, Cmd. 592. 4 pp.

Vide infra, p. 271.

—— *Ibid.* Building Materials, Reports of Sub-Committee on. (1) Report on prices, costs, and profits of the Brick Trade. 1920, Cmd. 959. 6 pp. (2) Report on Cement and Mortar. 1920, Cmd. 1091. 19 pp. (3) Report on prices,

[1] *Vide* also INDUSTRY AND COMMERCE: GENERAL PROGRESS, § A, 1, *supra*, pp. 99–108.

costs, and profits of Timber. 1920, Cmd. 985. 9 pp.

Vide supra, p. 27.

—— *Ibid.* Cotton, Sewing, Findings of Committees appointed to inquire into a Combine among Manufacturers of. 1920, Cmd. 563, 930.

Vide infra, p. 281.

—— *Ibid.* Drugs and Medicinal Tablets, Findings of a Committee with regard to, with special reference to Aspirin. 1920, Cmd. 633.

Vide infra, p. 223.

—— *Ibid.* Electric Lamp Industry, Findings of a Sub-Committee appointed to inquire into the existence of any Trust or Trade Combination in. 1920, Cmd. 622. 15 pp.

Vide infra, p. 243.

—— *Ibid.* Farriery trade, Findings of a Committee appointed to inquire into a Combination in. 1920, Cmd. 540. 6 pp.

Describes working of the Combine and examines complaints made against it. Gives figures of cost of horse-shoeing and charges in 1919 compared with pre-war.

—— *Ibid.* Fish Trade, Findings by a Committee appointed to inquire into. 1920, Cmd. 514.

Vide infra, p. 173.

—— *Ibid.* Fixed Retail Prices, Findings and Decisions of a Committee appointed to inquire into the principle of. 1920, Cmd. 662. 7 pp.

Discusses reasons for price-fixing, extent to which it is practised, equity of the system, and steps to be taken for ensuring the charging of a reasonable price.

—— *Ibid.* Fruit, Findings of a Sub-Committee of the Standing Committee on Trusts on the price of. 1920, Cmd. 878. 10 pp.

Vide infra, p. 180.

—— *Ibid.* Furniture, Findings of a Sub-Committee of the Standing Committee on Prices on the costs, profits and prices at all stages in respect of. 1920, Cmd. 983. 18 pp.

Describes organization of the industry generally, discusses costs and profits (giving figures of increase in cost of different materials and table of hours and rates of wages during war), decline in efficiency owing to war, existence of combine (none), &c.

—— *Ibid.* Glass Bottles, Jars and Scientific Glassware, Interim Report on. 1920, Cmd. 1066.

Vide infra, p. 259.

—— *Ibid.* Launderers, Findings of a Sub-Committee appointed by the Standing Committee on Trusts to inquire into Combines of, and the effect, if any, on prices. 1920, Cmd. 903. 5 pp.

Describes the history and objects of the National Federation of Launderers. Gives figures of increased costs of laundering, March 1920, compared with pre-war, and discusses how the combine has influenced prices charged.

—— *Ibid.* Matches, Report of a Sub-Committee of the Standing Committee on Prices on the price of. 1920, Cmd. 924. 10 pp.

Discusses cause of rise in price, extent of combination, &c. Gives figures of sales, capital and profit of seven companies before and during war. Refers to arrangement made during the war for pooling the industry.

—— *Ibid.* Meat, Report on, by a Sub-Committee of the Standing Committee on Trusts. 1920, Cmd. 1057.

Vide infra, p. 189.

—— *Ibid.* Milk, Report on, by a Sub-Committee of the Standing Committee on Trusts. 1920, Cmd. 1102.

Vide infra, pp. 192–3.

Board of Trade (*cont.*)

—— *Ibid.* Motor Fuel, Report on, by a Sub-Committee of the Standing Committee on Prices. 1920, Cmd. 597.

Vide infra, pp. 323–4.

—— *Ibid.* Oils, Fats and Margarine Trades, Report on, by a Sub-Committee of the Standing Committee on Trusts. 1920, Cmd. 982.

Vide infra, p. 195.

—— *Ibid.* Quinine Sulphate, Findings by the Board of Trade on . . . prices and supply of. 1919, Cmd. 499.

Vide infra, p. 224.

—— *Ibid.* Road Transport Rates, Findings by a Committee on the effect of, caused by alleged existence of a Combine. 1920, Cmd. 549.

Vide infra, p. 347.

—— *Ibid.* Salt Trade, Findings by a Sub-Committee of the Standing Committee on Trusts on the existence and effect of a Ring in. 1920, Cmd. 832. 12 pp.

Gives an account of the history of the salt trade, formation and operations of Salt Manufacturers' Association and its effect on prices.

—— *Ibid.* Tobacco Industry, Findings by a Committee appointed to inquire into the existence of a Trade Combination in. 1920, Cmd. 558.

Vide infra, p. 301.

Ministry of Food. *National Food Journal*, Mar. 26, 1919 (vol. 2), p. 359.

Describes briefly the work of trade associations in co-operating with Food Controller, especially as regards importation and distribution of meat, oils, and fats.

Ministry of Labour. Directory of Industrial and other Associations. 1919, Cmd. 328. (*Vide infra*, p. 365.)

Contains list of Employers' Associations.

Ministry of Reconstruction. Reconstruction Problems. No. 31. Trusts, Combines and Associations. H.M.S.O. 1919. 14 pp.

Describes modern trading methods and increased tendency during war towards formation of associations. Discusses advantages and disadvantages, and means for safeguarding public interests.

—— Trusts, Report of Committee on. 1918, Cd. 9236, vol. 13. 43 pp.

Discusses extent of combination, different types, methods of working, relations with Labour, &c., and makes recommendations for safeguarding public against abuses. Refers to increase of trade combinations during war as result of Government control, and gives list of associations with whom Ministry of Munitions dealt during war and Ministry's experience of them. Appx. contains Memorandum by John Hilton (*vide infra*).

¶ *Books and Periodicals :*

Benn, Ernest J. P. Trade as a Science. With an introductory preface by Lord Burnham. Jarrold & Sons. 1916. 184 pp.

Discusses faults existing in present system of trading owing to lack of co-operation, &c. Draws up scheme for establishment of Ministry of Commerce and constitution of model Trade Association. Refers to growth of organization during war.

—— The Trade of To-morrow.

Vide infra, p. 437.

Carter, Fredk. W. 'Why great Firms are pooling their Resources,' in *System*, Oct. 1919 (vol. 36), pp. 249–51.

Shows growth of industrial amalgamation since war ended and results aimed at.

Co-operative Union. Co-operators and Reconstruction : The need for co-operative action. Co-

operative Union, Manchester. n.d. 8 pp.

Discusses danger to co-operative movement from Trusts, the growth of Trusts during the war, and the growth of influence over Government through appointment of business men to official positions.

Fayle, C. Ernest. 'Trade Combinations,' in *Ed. R.*, July 1919 (vol. 230), pp. 110–29.

Discusses report of Committee on Trusts. Refers to effect of war on growth of combinations.

Federation of British Industries. Annual Reports for 1916–17 to 1918–19. Reports of Proceedings at Annual General Meetings, Oct. 1918 and Nov. 1919. F.B.I., 39 St. James's Street.

Contain accounts of the growth and work of the Federation.

—— Export Register of the F.B.I. 1920. 328 pp.

Pp. 9–32. Refers to growth of organization during war. Gives an account of the formation of the Federation, its constitution and policy, and work of the Home Industries Department and overseas organization.

Hilton, John. A Study of Trade Organizations and Combinations in the United Kingdom. Prepared for the Committee on Trusts. Harrison & Sons. 1919. 138 pp.

Describes the development and extent of combination, the difference in types, influence of war conditions, achievements effected, &c., and discusses dangers and safeguards. (The Memorandum was drawn up for the Committee on Trusts, (*vide supra*, p. 128), and printed as an appendix to their Report.)

Labour Research Department. The Milk Trust and the Community.

Vide infra, p. 195.

—— *Monthly Circular.* (*Vide infra*, p. 369.)

Contains useful monthly notes on employers' profits and progress of movement towards industrial combination.

Labour Year Book, 1919. (*Vide infra*, pp. 369–70.)

Pp. 260–7, 'The Organization of Capital'. Gives an account of the increased organization of capital during the war, with instances of amalgamation of firms; describes formation of large trading associations and their constitution and aims.

Macgregor, D. H. 'The Present Position of the Trust Question,' in *Trans. Manchester Statistical Soc.*, Sessions 1918–19 and 1919–20, pp. 111–37.

Discusses recent history of the movement and forms it has taken in United States, Continent, and Great Britain, and present position. (Paper read March 10, 1920.)

Postgate, R. W. and **Bacharach, A. L.** The Milk Trust and the Community.

Vide infra, p. 195.

Radcliffe, Raymond. 'The Trusts,' in *E. R.*, May 1919 (vol. 28), pp. 441–6.

Discusses development of Trusts during the war in various industries and the danger of the elimination of competition.

¶ *Trade Journals :*

The Employer.

Vide supra, p. 107.

The Organiser.

Vide supra, p. 108.

Production.

Vide supra, p. 108.

b. INDUSTRIAL COUNCILS.

Vide LABOUR: INDUSTRIAL COUNCILS, § V, A, 7, *infra*, pp. 433–42.

5. PATENTS AND TRADE MARKS

¶ *Acts of Parliament :*

Patents and Designs Act, 1914. 4 & 5 Geo. V. c. 18. 1 p.

Patents, Designs and Trade-Marks (Temporary Rules) Act, 1914. 4 & 5 Geo. V. c. 27. 2 pp.

Ibid. (Amendment) Act, 1914. 4 & 5 Geo. V. c. 73. 1 p.

Patents and Designs (Partial Suspension) Act, 1915. 5 & 6 Geo. V. c. 85. 1 p.

Patents and Designs Act, 1919. 9 & 10 Geo. V. c. 80. 20 pp.

Trade Marks Act, 1919. 9 & 10 Geo. V. c. 79. 9 pp.

¶ *Official Publications :*

Board of Trade. Patents, Designs and Trade Marks, Annual Reports of Comptroller-General of.—(Report, 1914) 1914–16, No. 160, vol. 32. 22 pp. — (Report, 1915) 1916, No. 58, vol. 14. 13 pp. — (Report, 1916) 1917–18, No. 79, vol. 17. 10 pp. — (Report, 1917) 1918, No. 87, vol. 12. 9 pp. — (Report, 1918) 1919, No. 172. 9 pp. — (Report, 1919) 1920, No. 106. 10 pp.

Include accounts of the steps taken for avoidance or suspension of patents, &c., held by enemies.

—— *The Illustrated Official Journal* (*Patents*). Patent Office. H.M.S.O. Weekly. 1*s.*

Gives details relative to applications for and granting of patents.

—— *Reports of Patent, Design, Trade Mark and other Cases.* Supplement to the *Illustrated Official Journal* (*Patents*). Ed. by J. Cutler. vol. 31 (1913–14), &c. In weekly parts, with yearly digest.

Reports of cases for England, Scotland, and Ireland in the High Courts of Justice, Court of Appeals, &c.

¶ *Books and Periodicals :*

Beaumont, J. Harold. 'Ex-enemy British Patents,' in *Engineering Review*, Dec. 1920 (vol. 34), pp. 148–9.

Discusses patent provisions of the German Peace Treaty and Orders made by Board of Trade under the Treaty.

Engineering Review, Nov. 15, 1916 (vol. 30), pp. 151–2. 'Patents and Patent Practice. (1) The Effect of the War upon Patents.'

Describes changes introduced since war and the position as regards enemy and British patents and current enemy inventions.

Leechman, Douglas. 'Efficient Invention, with special reference to Patents affected by the War,' in *Proc. Inst. Automobile Engineers*, 1918–19 (vol. 13), pp. 207–43 (with discussion).

Describes position at outbreak of war as regards number of British letters patent in force, the effect of the war and Government control, the agitation for giving patentees option of suspending their patents, &c. Criticizes Patents and Designs Bill of 1917, and argues that present uncertainty is detrimental to business.

Potts, Harold E. 'Present Position of British Patent Law. I. The Effect of the Peace Treaty. II. The "Working" Clauses of the new Patents Bill,' in *Jl. Textile Inst.*, Oct. and Nov. 1919 (vol. 10), pp. 279–80, 308–10.

I. Discusses injustices to patentees arising out of the war, and reviews provisions of Peace Treaty *re* patents. II. Discusses provisions of new Patents Bill.

6. INDUSTRIAL RESEARCH[1]

¶ *Official Publications :*

Board of Education. Scholarships for Higher Education, Interim Report of Consultative Committee on. 1916, Cd. 8291, vol. 8.

Vide supra, p. 52.

—— Scientific and Industrial Research, Scheme for the organization and development of. 1914–16, Cd. 8005, vol. 50. 4 pp.

Outlines constitution and functions of Committee of Privy Council for Research and the Advisory Council.

Department of Scientific and Industrial Research. Annual Reports.—(1st Report, 1915–16)1916, Cd. 8336, vol. 8. 56 pp. — (Report, 1916–17) 1917–18, Cd. 8718, vol. 11. 63 pp. — (Report, 1917–18) 1918, Cd. 9144, vol. 9, 78 pp. — (Report, 1918–19) 1919, Cmd. 320. 94 pp.—(Report, 1919–20) 1920, Cmd. 905. 120 pp.

Describe work of the Advisory Council, progress made in research, formation of trade associations for research, steps taken in Dominions, &c.

—— Pamphlets on the formation of Research Associations. Nos. 1 to 6. 1918 to 1921. To be obtained gratis from Secretary of the Dept.

Describe Government scheme for formation and financing of Research Associations, suggested Articles of Association, conditions as to payment of grants, &c., and (No. 6) list of approved Research Associations.

—— Paper No. 1. Report of proceedings on the occasion of the deputation from the Board of Scientific Societies to the President of the Council on Dec. 1, 1916. H.M.S.O. 12 pp.

—— Report of First Conference of Research Organizations, July 29, 1919. 30 pp.—Report of Second Conference, Dec. 12, 1919. 32 pp. — Report of Third Conference, May 14, 1920. 33 pp. To be obtained gratis from Secretary of the Dept.

Ministry of Reconstruction. Reconstruction Problems, No. 36. Industrial Research. H.M.S.O. 1919. 29 pp.

Discusses necessity for research, gives an account of the State and other institutions for research, and describes some of the work recently undertaken.

Privy Council. Committee for Scientific and Industrial Research. *Vide* DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, *supra*.

¶ *Books and Periodicals :*

British Science Guild. Annual Reports and Journal. (Published about twice a year, first issue July 1915.)

Contain reports and discussions as to progress of industrial and scientific research during the war.

Fleming, J. A. 'The Organization of Scientific Research,' in *Jl. Roy. Soc. Arts*, Feb. 11, 1916 (vol. 64), pp. 245–63 and 287–9 (with discussion and correspondence).

Discusses critically the Government scheme for research, progress made since outbreak of war, lines on which research should be undertaken.

Heath, Sir Frank. 'The Government and the Organization of Scientific Research,' in *Jl. Roy. Soc. Arts*, Feb. 21, 1919 (vol. 67), pp. 206–19 (with discussion).

[1] For researches in various industries, *vide* under the particular industry.

Describes the organization set up by Government, policy adopted, and work of the Department.

Illingworth, S. Roy. Science and Industry. Institute of Industry and Commerce, Miscellaneous Pamphlets. P. S. King & Son. 1915. 8 pp.

Discusses interdependence of industry and science, showing need for adequate training and use in industry of technologists.

Nature. Weekly.

Contains frequent articles and correspondence on progress of industrial research, discussion of Government attitude, &c. *Vide*, in particular, Jan. 6, 1916 (vol. 95), pp. 525–7, article on 'Scientific Committees on national problems', giving a list of committees appointed by Government and scientific societies for research; and a series of articles on 'Industrial Research Associations', by various writers, Nov. 11, 18, 25, Dec. 2, 9, 16, 23, 1920, and Jan. 13 and Feb. 10, 1921 (vol. 107), giving a brief account of the formation of associations in various industries, their aims, programme of research, and work already accomplished.

Society of Chemical Industry. Reports on the Progress of Applied Chemistry. Vol. 1, 1916. 325 pp. Vol. 2, 1917. 536 pp. Vol. 3, 1918. 495 pp. Vol. 4, 1919. 632 pp. Vol. 5, 1920. 640 pp.

Contain papers on researches made in various industries. Mainly technical.

B. AGRICULTURE AND FOOD SUPPLY [1]

1. GENERAL

¶ *Acts of Parliament:*

Agriculture Act, 1920. 10 & 11 Geo. V. c. 76. 31 pp.

Corn Production Act, 1917. 7 & 8 Geo. V. c. 46. 20 pp.

Corn Production (Amendment) Act, 1917. 8 & 9 Geo. V. c. 36. 1 p.

Land Drainage Act, 1918. 8 & 9 Geo. V. c. 17. 11 pp.

Maintenance of Live Stock Act, 1915. 5 & 6 Geo. V. c. 65. 1 p.

Ministry of Agriculture and Fisheries Act, 1919. 9 & 10 Geo. V. c. 91. 7 pp.

Slaughter of Animals Act, 1914. 4 & 5 Geo. V. c. 75. 1 p.

¶ *Official Publications:*

Manuals of Emergency Legislation. Food Supply Manuals.

Vide infra, pp. 177–9.

Statutory Rules and Orders, 1914, &c. (*Vide supra*, p. 85.)

Contain Orders made by Board of Agriculture, &c., under Acts of Parliament (but not Orders made under Defence of the Realm Regulations, which are contained in Manuals of Emergency Legislation, *vide supra*, pp. 83–4, and *infra*, pp. 177–9).

Board (later **Ministry**) **of Agriculture and Fisheries.** Agricultural Wages Board. Report of Committee on the Financial Results of the Occupation of Land and the Cost of Living of Rural Workers. 1919, Cmd. 76. 73 pp.

[1] *Vide* also many of the items under FOOD CONTROL, § III, G, *infra*, pp. 177–98, and, as regards fertilizers, under CHEMICALS, § J, 1, a, *infra*, pp. 217–24; for control of wool, as affecting farmers, *vide* § J, 10, e, *infra*, pp. 289–94, *passim*; for labour conditions in agriculture, *vide* §§ V, B, V, C, and V, D, 1, c, *infra*, pp. 459–74, 489–94. For further articles reference may be made to the 'Agricultural Index', an index to some 200 agricultural periodicals and bulletins, issued from 1916 five times a year, cumulating throughout the year, published by the H. W. Wilson Co., White Plains, New York. The references are mainly to American conditions.

Discusses (1) position of farmer, course of prices of farm produce (1913–14 to 1918), price of farm requisites, farm rents, receipts and expenditure, cost of labour; (2) cost of living, prices of foodstuffs, fuel and light, clothing, cleaning materials, 1914–18. Gives budgets. Appendices contain tables, &c., on above subjects, including rates of wages of agricultural labourers, before and during war, memorandum by Professor Bowley on increase in cost of food June 1918 to June 1919, tables on nutritive value of dietary, &c.

—— Education and Research, Agricultural, distribution of grants for, Annual Report on, for 1914–15. 1914–16, Cd. 8066, vol. 5. 154 pp. (Subsequent reports not published separately but printed in *Jl. Bd. Agric.*, July 1917 (vol. 24), pp. 385–94; Nov. 1918 (vol. 25), pp. 934–41; and (Reports for 1917–18 and 1918–19) June 1919 (vol. 26), pp. 279–300).

Give accounts of the work of the Agricultural Colleges, Research Institutes, &c., grants made for agricultural education, &c. Brief mention of war schemes, e. g., cultivation of allotment gardens, training women in milking, &c.

—— Food, Production of, in England and Wales, Departmental Committee on. Interim and Final Reports. 1914–16, Cd. 8048, 8095, vol. 5. 7 pp., 11 pp.

Contain recommendations as to steps to be taken by Government to assist agriculture.

—— Food Production Department, Statement of Financial Results of principal Trading Schemes carried out by. 1919, Cmd. 304. 6 pp.

Contains, with comments, an abstract of the accounts of trading schemes of the Department since April 1917, and a summary of farming, drainage and trading operations by County Agricultural Executive Committees, April 1917 to Sep. 1918.

—— German Agriculture, The Recent Development of. By T. H. Middleton. 1916, Cd. 8305, vol. 4. 74 pp.

Discusses agricultural organization and methods in Germany. Contrasts food output in Germany and Britain.

—— Horses suitable for Military Purposes, steps to be taken in England and Wales to secure an adequate supply of, Report of Committee on. 1914–16, Cd. 8134, vol. 39. 24 pp.

Describes the steps taken before war for encouragement of horse-breeding and the inadequacy of supply of suitable horses and makes recommendations for further encouragement of horse-breeding.

—— Light Horse Breeding Industry, administration of grant for encouragement and improvement of, Annual Report on, for 1913–14. 1914–16, Cd. 7818, vol. 5. 56 pp. (Reports for 1914–15 to 1917–18 not published separately but printed in *Jl. Bd. Agric.*, Mar. 1916 (vol. 22), pp. 1252–9; Mar. 1917 (vol. 23), pp. 1194–202; Mar. 1918 (vol. 24), pp. 1384–8; Feb. 1919 (vol. 25), pp. 1354–8).

Describe objects and working of the scheme, military demands and arrangements made with War Office, establishment of National Stud, &c.

—— Live Stock Breeding Industry, administration of grant for encouragement and improvement of, Annual Report on, for 1914–15. 1914–16, Cd. 8017, vol. 5. 71 pp. (Reports for 1915–16 to 1918–19 not published separately but printed in *Jl. Bd. Agric.*, Aug. 1916 (vol. 23), pp. 417–25; Aug. 1917 (vol. 24), pp. 497–503; Aug. 1918 (vol. 25), pp. 541–9; Sep. 1919 (vol. 26), pp. 591–606).

Describe objects and working of the scheme and grants made.

—— Machinery, Agricultural, Departmental Committee on. Report, with Appendix and Sum-

Board (later **Ministry**) **of Agriculture and Fisheries** (*cont.*)

maries of Evidence. 1919, Cmd. 506. 75 pp.

Discusses mainly future policy. Also gives very brief summary of steps taken by Ministry of Agriculture during the war. Evidence refers, *passim*, to change in attitude of farmers and effect of war on agricultural machinery-manufacturing industry.

—— Milk, Committee on Production and Distribution of.

Vide infra, p. 191.

—— Settlement or Employment on the Land of Discharged Sailors and Soldiers, Report of Departmental Committee on. 1916, Cd. 8182, 8277, 8347, vol. 12.

Vide infra, pp. 518–9.

—— Statistics, Agricultural. Pt. I. Acreage and Live Stock Returns of England and Wales. Pt. II. Returns of Produce of Crops. Pt. III. Prices and Supplies of Corn, Live Stock, and other Agricultural Produce.—(Statistics, 1914) 1914–16, Cd. 7926, 7954, 8152, vol. 79. 366 pp. — (*Ibid.*, 1915) 1916, Cd. 8240, 8300, 8391, vol. 32. 151 pp. — (*Ibid.*, 1916) 1917–18, Cd. 8436, 8559, 8870, vol. 36. 93 pp. — (*Ibid.*, 1917) 1918, Cd. 9006, 9089, 9163, vol. 24. 90 pp. — (*Ibid.*, 1918) 1919, Cmd. 13, 298, 375. 90 pp.— (*Ibid.*, 1919) 1920, Cmd. 680, 695, 902. 118 pp. — (*Ibid.*, 1920, Pt. I) 1920, Cmd. 1074.

Statistics of acreage of different crops under cultivation, number of live stock, number and size of agricultural holdings; produce, yield per acre, &c., of crops; prices of corn, bread, live stock, meat, dairy produce, vegetables, wool, &c., supply of cattle at certain markets, index numbers of prices of produce sold off farms. Introductions contain some reference to Government control and food production policy. Statistics for 1919, Pt. III, review conditions during war period as regards prices and supplies of agricultural produce, costs of production, imports of agricultural produce, fertilizers and feeding stuffs, &c.

—— Wheat, Statement in regard to Cost of Growing an acre of, during the present season compared with pre-war cost. 1917–18, Cd. 8675, vol. 36. 2 pp.

Gives six estimates of cost in 1917 compared with 1913.

—— Wheat, Barley, and Oats, Return of Area and Production of, in U.K. in each of the years 1867 to 1916; and the average Price of British wheat, barley, and oats in England and Wales. 1917–18, Cd. 8523, vol. 36. 2 pp.

—— *Journal of Board of Agriculture*. Monthly. 6*d*.

Contains articles on technical subjects, work of Agricultural Executive Committees (July 1918, June 1919, Aug. 1920), working of Government tractor scheme (Dec. 1918), food production campaign, agricultural experiments, &c.; advice to farmers, monthly reports as to agricultural conditions and labour, prices of live stock, meat, dairy produce, wheat, &c., and artificial manures and feeding stuffs; official notices and circulars issued by various Government Departments; questions in Parliament; notes on recruiting, employment of soldiers and prisoners of war, allotments, wages, land settlement of ex-service men, &c.

Board of Agriculture, &c., and Ministry of Food. Milk, Cost of Production of, Interim Report of Agricultural Costings Committee on.

Vide infra, p. 192.

Board of Trade. The Food Supply of the United Kingdom. A Report drawn up by a Committee of the Royal Society at the request of the President of the Bd. of Trade. 1916, Cd. 8421, vol. 9. 35 pp.

Discusses, with tables showing the amount of protein, fat, &c., the food

supply before the war and in 1916 and possible methods of economizing the supply.

Colonial Office. Edible and Oil-producing Nuts and Seeds, Report of Committee on. (*Vide infra*, p. 195.)

Contains information with regard to feeding-stuffs.

Commissions, Royal. Agriculture, Royal Commission on. Interim Report. 1919, Cmd. 473. 21 pp. Minutes of Evidence, with Appendices and Indexes.—Vol. 1. 1919, Cmd. 345. 189 + 20 + v pp. —Vol. 2. Cmd. 365. 128 + 32 + iii pp. — Vol. 3. Cmd. 391. 119 + 103 + iii pp. — Vol. 4. Cmd. 445. 92 + 41 + iii pp. — Vol. 5, and General Index to Report and Evidence. 1920, Cmd. 665. 100 + 20 + xxviii pp.

Report deals mainly with question of continuance of guarantees. Evidence (taken between Aug. 5, 1919, and Jan. 29, 1920) includes Scotland as well as England. Deals largely with question of future policy but also with war conditions, e. g., wages (evidence of Sir J. Wilson, vol. 1, *re* election and procedure of Wages Committees in Scotland, rates fixed, allowances, &c.; and, *passim*, evidence *re* actual wages paid, growing dislike of piece work, efficiency of labour, opposition of farmers to policy of fixing hours): food control (evidence of Sir W. H. Beveridge, vol. 1, *re* action of Food Controller, especially with regard to milk and potatoes, methods and difficulties of price-fixing, &c.; and, *passim*, evidence *re* effect of control on production of milk and butter, &c.): costs of production, profit and loss accounts (statistics prepared by Agricultural Costings Committee, National Farmers' Union, &c.): prices and control of fertilizers and seeds and prices of agricultural machinery.

—— Dominions Royal Commission. Food and Raw Material Requirements of the United Kingdom, Memorandum and Tables relating to. 1914–16, Cd. 8123, vol. 14. 123 pp.

Gives statistics (1901–14) of imports into United Kingdom and consumption of wheat, &c., and all kinds of food.

Committees. Milk Production, Prices fixed for, Select Committee of House of Lords on.

Vide infra, p. 193.

—— Ministry of Labour, &c., Reports of Committees on Staffing and Methods of Work of. 1920, Cmd. 1069. (*Vide supra*, p. 77.)

Discusses (pp. 24–33) organization, methods of work and staffing of Ministry of Agriculture.

Development Commission. Annual Reports. — (Report, 1914–15) 1914–16, No. 408, vol. 13. 14 pp. — (Report, 1915–16) 1916, No. 144, vol. 7. 12 pp.—(Report, 1916–17) 1917–18, No. 159, vol. 10. 13 pp. — (Report, 1917–18) 1918, No. 118, vol. 8. 16 pp. — (Report, 1918–19) 1919, No. 214, 28 pp. — (Report, 1919–20) 1920, No. 230. 242 pp.

Contain particulars as to grants made. Schemes assisted include war schemes (e. g. vegetable drying and fruit canning, training women in milking, cheese schools, &c.). Report for 1919–20 contains a review of the work of the Commission since its establishment; discusses position of agriculture at the close of the war.

Ireland. Department of Agriculture and Technical Instruction for Ireland. Annual Reports.—(Report, 1914–15) 1916, Cd. 8299, vol. 4. 219 pp. — (Report, 1915–16) 1917–18, Cd. 8574, vol. 4. 201 pp. — (Report, 1916–17) 1918, Cd. 9016, vol. 5. 234 pp. — (Report, 1917–18) 1919, Cmd. 106. 250 pp. — (Report, 1918–19) 1920, Cmd. 929. 404 pp.

Contain information *re* agricultural and technical instruction, improvement of live stock, agricultural experiments, loans for agricultural purposes, &c.; also information *re* war measures (e. g., compulsory tillage, supply of fertilizers and seeds, work of Agricultural Wages Board, &c.).

Ireland (*cont.*)

—— *Ibid.* Dairying, Decline of, in Ireland, Departmental Committee on.

Vide infra, p. 193.

—— *Ibid.* Diseases of Animals Acts, Annual Reports of proceedings under, with returns of Exports and Imports of Animals.—(Report, 1914) 1914–16, Cd. 8100, vol. 6. 79 pp. — (Report, 1915) 1916, Cd. 8389, vol. 4. 34 pp. — (Report, 1916) 1917–18, Cd. 8729, vol. 4. 34 pp. — (Report, 1917) 1919, Cmd. 92. 30 pp. — (Report, 1918) 1920, Cmd. 784. 32 pp.

Give statistics of number of different kinds of animals exported to and imported from Great Britain, with introductory comments showing effect, e. g., of Maintenance of Live Stock orders.

—— *Ibid.* Food Production in Ireland, Departmental Committee on. Report and Minutes of Evidence, with Appendices and Index. 1914–16, Cd. 8046, 8158, vol. 5. 21 pp., vi + 93 pp.

Report contains tables showing increase of tillage and numbers of live stock in June 1915 compared with June 1914. Makes recommendations with regard to Government assistance. Evidence given on subject of agricultural organization, position as regards supplies of manures, criticism by corn importers of Government purchase of wheat, &c.

—— *Ibid.* Pig-breeding Industry, Irish, Departmental Committee on. Report and Minutes of Evidence, with Appendices and Index. 1914–16, Cd. 7890, 8004, vol. 6. 18 pp., 139 pp.

Discusses present conditions of the industry, prospects, causes of decline in 1913, working of Department's scheme for improving quality of pigs. Makes recommendations as to methods of breeding, marketing, &c. Conditions discussed are not due to war.

—— *Ibid.* Prices, annual average, for each year from 1881, for Ireland as a whole, Return of, dated May 29, 1919. 1920, No. 145. 6 pp.

Gives annual average prices for all Ireland, 1881 to 1919, of different kinds of crops, store cattle and sheep, meat, butter, eggs, wool, flax.

—— *Ibid.* Statistics, Agricultural, Ireland (General Abstracts).—(Statistics, 1915) 1914–16, Cd. 8049, vol. 79. 31 pp.—(*Ibid.*, 1916) 1916, Cd. 8355, vol. 32. 29 pp.—(*Ibid*, 1917) 1917–18, Cd. 8711, vol. 36. 29 pp.—(*Ibid.*, 1918) 1919, Cmd. 113. 37 pp.—(*Ibid.*, 1919) 1920, Cmd. 838. 33 pp.

Contain, with introductory comments, statistics *re* acreage under crops and numbers of live stock, on June 1 each year, compared with previous year.

—— *Ibid.* Statistics, Agricultural, of Ireland, with detailed Report. — (Statistics, 1914) 1916, Cd. 8266, vol. 32. 143 pp. — (*Ibid.*, 1915) 1917–18, Cd. 8563, vol. 36. xix + 111 pp. — (*Ibid.*, 1916) 1919, Cmd. 112. xvii + 111 pp.

Contain, with introductory comments, statistics *re* number and size of holdings, acreage under different crops, estimated produce, number of stockholders and of different kinds of live stock, acreage under forest trees, &c.

—— *Ibid.* Statistics, Agricultural. Return of Prices of Crops, Live Stock, and other Irish Agricultural Products. — (Return for 1914) 1914–16, Cd. 7980, vol. 89. 81 pp., and diagrams.—(Return, 1915) 1917–18, Cd. 8452, vol. 36. 38 pp., and diagrams.

Give tables showing course of prices for series of years. Discuss effect of war on prices.

—— *Ibid.* [Miscellaneous Pamphlets]. Agricultural Problems arising out of the War. A lecture delivered by J. R. Campbell, at

Royal College of Science, Dublin, Feb. 13, 1918. 8 pp.

Discusses kind of crops to be grown, position with regard to supplies of fertilizers, feeding-stuffs, labour-saving machinery, &c.

—— *Ibid.* Ireland as a Food-Supplier of Great Britain. May 1918. 4 pp.

Quotes statistics showing importance of food exports from Ireland to England and way in which these have been maintained during war, and explains reasons for Orders issued regulating export and import between the two countries.

—— *Ibid.* The War and Ireland's Food Supply. Address given by Dr. Kelly, Lord Bishop of Ross, Aug. 20, 1914. (Reprinted in *Journal of the Department*, Oct. 1914 (vol. 15), pp. 20–24).

An appeal to the Irish farmer to increase food production.

—— *Ibid. Journal of the Department.* Quarterly. 6*d.*

Contains articles on agricultural experiments, technical instruction, crop reports, food production campaign, allotments, flax-growing, &c.; reports of half-yearly meetings of Council of Agriculture with speech of Vice-President of Department reviewing position of Irish agriculture; official orders and leaflets; monthly or quarterly statistics of prices of crops, live stock, &c. (and sometimes of seeds, fertilizers and feeding stuffs), exports and imports of animals, emigration, &c.

—— Irish Land Commissioners. Annual Reports.—(Report, 1914–15) 1914–16, Cd. 8042, vol. 24. xi + 135 pp. — (Report, 1915–16) 1917–18, Cd. 8481, vol. 15. xi + 93 pp. — (Report, 1916–17) 1917–18, Cd. 8742, vol. 15. xi + 85 pp. — (Report, 1917–18) 1919, Cmd. 19. xi + 85 pp. — (Report, 1918–19) 1920, Cmd. 572. xi + 87 pp. — (Report, 1919–20) 1920, Cmd. 1064. xi + 77 pp.

Deal with fixing of judicial rents, leases, &c., loans issued, result of proceedings under Land Purchase Acts.

Ministry of Agriculture and Fisheries. *Vide* BOARD OF AGRICULTURE AND FISHERIES, *supra.*

Ministry of Food. Milk, Cost of Production of, Travelling Commission of Inquiry into.

Vide infra, p. 193.

—— and **Board of Agriculture, &c.** Milk, Cost of Production of, Interim Report of Agricultural Costings Committee on.

Vide infra, p. 192.

Ministry of Reconstruction. Agricultural Policy Sub-Committee. Report and Summaries of Evidence and Index. 1918, Cd. 9079, 9080, vol. 5. 136 pp., 129 pp.

Discusses the status and work of the Departments of Agriculture for England, Scotland, and Ireland, the position as regards agricultural education and research, co-operation, small holdings, local taxation, &c., and makes recommendations. Summaries of evidence deal with above subjects and also contain some information as to wages and conditions of employment of farm servants in Scotland. (*Vide* also RECONSTRUCTION COMMITTEE, *infra.*)

—— Reconstruction Problems, No. 13. Rural Industries. H.M.S.O. 1919. 13 pp.

Discusses need for establishment of rural industries and refers briefly to work carried out during war by Rural League, &c., in this direction.

Office of Works. Cultivation of certain areas in the Royal Parks, Reports on. 1918, Cd. 8996, vol. 12. 1 p. 1919, Cmd. 114. 4 pp.

Give statements of receipts and expenditure on cultivation schemes in various parks for seasons 1917 and 1918 respectively.

Reconstruction Committee. Agricultural Policy Sub-Committee, Pt. I of Report of, on methods of effecting an increase in the Home-

grown Food Supplies. 1917–18, Cd. 8506, vol. 18. 32 pp.

Describes effects of agricultural depression and makes recommendations with regard to policy to be pursued. (Reprinted in Report of Agricultural Policy Sub-Committee, Cd. 9079, *vide* under MINISTRY OF RECONSTRUCTION, *supra*.)

Scotland. Board of Agriculture for Scotland. Annual Reports.—(Report, 1914) 1914–16, Cd. 7899, vol. 7. xcv + 114 pp. — (Report, 1915) 1916, Cd. 8282, vol. 4. lix + 7 pp. — (Report, 1916) 1917–18, Cd. 8624, vol. 4. xliv + 7 pp. — (Report, 1917) 1918, Cd. 9069. vol. 5. lxvi + 10 pp.—(Report, 1918) 1919, Cmd. 185. lxxxiv + 15 pp.—(Report, 1919) 1920, Cmd. 773. xcvi + 41 pp.

Contain information and statistics *re* small holdings, agricultural education and research, improvement of live stock, agricultural co-operation, &c. Also information as to war measures, e. g., supply of agricultural produce for forces, purchase of army remounts, formation of District Agricultural Committees, measures for increased cultivation, supply of motor tractors, fertilizers, &c., land settlement and training of ex-service men, provision of allotments, recruiting and supply of agricultural labour (soldiers, women), municipal distribution of potatoes (report for 1917), work of Agricultural Wages Committees, &c.

—— *Ibid.* Food, Production of, in Scotland, Departmental Committee on. 1st Report. H.M.S.O. 1915. 16 pp. Minutes of Evidence, with Appendices and Index. 1915. 166 pp. 2nd Report. 1917. 6 pp. 3rd Report. 1917. 8 pp.

First two Reports contain recommendations as to measures to be taken. Third Report describes briefly action taken on recommendations (formation and work of Agricultural Committees, supply of labour, organization of tractor ploughing, allotments, &c.), and makes further recommendations. Evidence contains, *passim*, information *re* effect of war on agriculture (e. g. production, imports and exports of fertilizers, supply of labour and wages, supply of agricultural machinery, transport difficulties, effect on butchers' trade, &c.).

—— *Ibid.* Statistics, Agricultural, Scotland. Pt. I. Acreage and Live Stock Returns of Scotland. Pt. II. Returns of Produce of Crops. Pt. III. Prices and Supplies of Grain, Live Stock and other Agricultural Produce.—(Statistics, 1914) 1914–16, Cd. 7958, 8037, vol. 90, and 1916, Cd. 8183, vol. 32. 237 pp. — (*Ibid.*, 1915) 1917–18, Cd. 8501, 8620, vol. 36, and 1918, Cd. 9083, vol. 24. 108 pp. — (*Ibid.*, 1916) 1918, Cd. 9130, vol. 24, and 1919, Cmd. 170 and 202. 109 pp. — (*Ibid.*, 1917) 1919, Cmd. 95 and 349, and 1920, Cmd. 806. 109 pp.—(*Ibid.*, 1918) 1920, Cmd. 564, 593, 1058. 113 pp.—(*Ibid.*, 1919, Pts. I, II) 1920, Cmd. 993, 1043.

Similar to Agricultural Statistics for England and Wales, *supra*, p. 139. Statistics for 1914 relate mainly to pre-war period.

—— *Ibid. Scottish Journal of Agriculture.* Quarterly, from Jan. 1918. Price 6*d*.

Contains articles on matters affecting agriculture in Scotland (cost of production, agricultural experiments, control of fertilizers, &c.), official orders and circulars, quarterly prices of agricultural produce and feeding stuffs.

Treasury. Vote of Credit, Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Gives (pp. 9–65) an account of operations of Boards of Agriculture for England and Scotland with regard to food production, and trading accounts, and (p. 66) trading and profit and loss account of Department of Agriculture for Ireland with regard to agricultural machinery.

War Cabinet. Reports for 1917 and 1918. (*Vide supra*, p. 92.)

Report for 1917, pp. 156–65, and Report for 1918, pp. 229–48, describe steps taken

with regard to agriculture and food supply, War Agricultural Committees, labour, machinery, fertilizers, seeds, drainage, allotments, &c.

War Office. Army Agricultural Committee, Report of. 1919, Cmd. 308. 18 pp.

Describes work of the army in cultivation of land and keeping of live stock at home and abroad.

¶ *Books and Periodicals :*

Acland, F. D. 'The Corn Production Act,' in *Jl. Bath and West and Southern Counties Society*, 1917–18 (5th series, vol. 12), pp. 7–20.

Discusses provisions of the Act and reasons therefor, and gives account of the discussions in Parliament during passing of the Bill.

Almond, John. 'War Agricultural Committees,' in *Jl. Roy. Lancs. Agric. Soc.*, 1916, pp. 63–9.

Brief account of the work of the Lancashire War Agricultural Committee.

Ashby, A. W. Agriculture and the War. Pamphlets on Problems of National Reconstruction, No. 4. *The Athenaeum.* 1917 (?). 8 pp.

Describes steps taken by Government to promote agriculture and stock-breeding and the results. Discusses methods for increasing production and future prospects.

—— 'Rural Problems.' *Vide* FURNISS, H. SANDERSON, *infra.*

Bensusan, S. L. 'War and the Farmer,' in *N. C.*, Ap. 1915 (vol. 77), pp. 830–40.

Discusses effect of war on small farmer and need for Government assistance.

Better Business, Nov. 1919 (vol. 5), pp. 1–10. 'Land Purchase and Land Mortgage Credit for Ireland.' By 'Airgead'.

Refers to suspension of land purchase during war and discusses how land hunger is to be dealt with, urging co-operative organization for purchase of land for agriculture. Quotes figures of expenses and profits of running a small farm.

British Dairy Farmers' Association, Journal of. Vols. 30–33. 1916, 1917, 1920, 1921. (Publication suspended in 1918 and 1919). McCorquodale & Co.

Contain, *passim*, more especially in the Journal for 1920, some information as to progress of dairy and poultry farming and effects of the war.

Bywaters, H. W. 'Foods,' in *Report of the Progress of Applied Chemistry*, issued by Soc. of Chemical Industry, 1918 (vol. 3), pp. 386–416.

Describes position as regards food supply during war, in England and elsewhere, researches made *re* composition and treatment of food, utilization of substitutes, &c.

Campbell, J. R. Agricultural Problems arising out of the War. *Vide* under IRELAND (Dept. of Agric., etc.), *supra*, p. 144.

Carnegie Endowment for International Peace. Effects of the Great War upon Agriculture in the United States and Great Britain. *Vide* HIBBARD, B. H., *infra.*

Central and Associated Chambers of Agriculture. Annual Reports for 1915, &c.

Contain accounts of action taken by Chambers with regard to measures affecting agriculture (e. g. employment of school children, recruiting of agricultural labour, Government control of meat, milk, &c.).

—— *Journal of the Central and Associated Chambers of Agriculture.* Irreg. (7 to 9 numbers a year).

Contains full reports of meetings of Council of Central and Associated Chambers, at which questions of Government policy and its results are frequently

discussed, e. g. Slaughtering of Live Stock Order, supply of labour, supply of fertilizers, requisitioning of farm produce, fixing of prices of milk, meat, potatoes, &c., Corn Production Bill, &c.

Collett, Anthony. 'The Nation's Wheat Supply,' in *C. R.*, July 1920 (vol. 118), pp. 71–8.

Describes Government war measures with regard to wheat cultivation and subsidies and results. Discusses standpoint of farmers and criticizes Government policy.

Connell, Isaac. The Corn Production Act, 1917. With an Introduction and Notes and Appendices containing forms, &c. W. Green & Son, Edinburgh. 1918. 118 pp.

Contains text of the Act with notes, introduction commenting on its provisions, and appendices giving circulars issued, &c.

Crookes, Sir Wm. The Wheat Problem. 3rd ed., with preface and additional chapter bringing the statistical information up to date, and a chapter on Future Wheat Supplies by Sir R. Henry Rew. Longmans, Green & Co. 1917. 100 pp.

Chapter II describes development since 1898 (mostly pre-war), urges need for increased use of fertilizers, &c., and describes recent work abroad in fixation of atmospheric nitrogen. Chapter III discusses statistics of supplies during war and future prospects.

Douglas, Charles. 'Scottish Agriculture during the War,' in *Trans. Highland and Agric. Soc. of Scotland*, 1919 (5th series, vol. 31), pp. 1–66.

Useful account of Scottish agriculture. Describes administration of the Scottish Board of Agriculture, work of the Agricultural Executive Committees, forage control, food control, and results on production. Discusses difficulties of price fixing, profits of farmer, &c. Gives statistics, 1914–18, prepared from official and private sources, of crops and number of live stock, prices of farm produce and live stock and of fertilizers and feeding stuffs.

Douglas, London Macqueen. 'The British Pig Industry and its Value to the Nation,' in *Jl. of Farmers' Club*, July 1918, pp. 101–19 (with discussion).

Gives some account of progress of pig-keeping during the war. Discussion includes speech by Pig Controller, describing action taken by Board of Agriculture to encourage pig-keeping and measures taken by local authorities (municipal piggeries and conversion of refuse into pig and poultry meal).

Drysdale, John. The Milk Trade and its Control.

Vide infra, p. 194.

Eve, H. Trustram. 'County War Agricultural Committees,' in *Jl. of Farmers' Club*, Mar. 1916, pp. 39–60 (with discussion).

Gives some account of the working of the Committees, but is mainly a discussion of what they should do.

Farmer and Stockbreeder Year Book, for 1915, &c. *The Farmer and Stockbreeder.*

Contains, *passim*, some information as to effect of war on farming, especially on live stock farming, criticism of Government action, &c. Contains annually an article summarizing legislation and giving the more important decisions of the Courts affecting agricultural interests during the year.

Farmers' Club, Journal of. Irreg. 57 Ludgate Hill.

Contains, *passim*, information with regard to effect of war on agriculture, Government control, &c. And *vide* articles by L. M. Douglas, H. Trustram Eve (*supra*), V. A. Malcolmson (*infra*), &c.

Furniss, H. Sanderson. 'Commercial Policy and our Food Supply.' *Vide* RUSKIN COLLEGE, *infra.*

—— (Editor). The Industrial Outlook. Chatto & Windus. 1917. ix + 402 pp.

Pp. 207–54, 'Rural Problems,' by Arthur W. Ashby. Discusses position of agriculture before war, development during

war and future prospects, condition of the agricultural classes, education, &c.

Galtrey, Sidney. The Horse and the War. Offices of 'Country Life'. 1918. 130 pp.

Mainly a description of the use, training, &c., of horses in France. Refers to the number of horses impressed in U.K. in early days of the war and introduction of Percheron breed into England during war.

Garner, H. E. 'Modern Developments in Farm Tractors,' in *Jl. Bath and West and Southern Counties Soc.*, 1920–21 (5th series, vol. 15), pp. 62–73.

Describes developments in farm tractors and changes in detail of design and construction during past four years. Discusses very briefly the reasons for slow development of farming by mechanical power.

Garrard, G. H. 'The Work of the Motor Tractor,' in *Jl. Roy. Agric. Soc.*, 1918 (vol. 79), pp. 1–24.

Describes development in use of motor tractor during war, difficulties experienced, working and cost of Government scheme, types of tractors. Discusses advantages and disadvantages.

Gordon, L. Smith- and **O'Brien, Cruise.** Ireland's Food in Wartime. Co-operative Reference Library, Dublin. (Miscellaneous Publications, No. 1). 1914. 75 pp.

Discusses position as regards normal consumption of food-stuffs in Ireland, course of prices in Ireland on outbreak of war and causes of increase, the probable effect of war on Ireland as a producing country and the measures to be taken, criticizing Government policy. Gives figures of prices in different parts of Dublin, prices in co-operative and private trade, and other particulars as to prices in Aug. 1914, showing capricious variations.

Guild, J. B. 'Variations in the Numbers of Live Stock and in the Production of Meat in the United Kingdom during the War,' in *Jl. Roy. Stat. Soc.*, July 1920 (vol. 83), pp. 533–71 (with discussion).

Discusses in detail the variations during war in number of live stock of different kinds, in rate of slaughter and in weight of animals slaughtered. Information partly derived from unpublished official material.

Hall, A. D. Agriculture after the War. John Murray. 1916. 137 pp.

Discusses existing expenditure on imported food and decline of agriculture before war, and makes proposals as to future policy.

Harris, L. C. 'Women's Institutes,' in *Better Business*, Feb. 1917 (vol. 2), pp. 179–82.

Gives short account of the movement for establishment of Women's Institutes, with instances of work they are doing.

Hibbard, B. H. Effects of the Great War upon Agriculture in the United States and Great Britain. Carnegie Endowment for International Peace. Preliminary Economic studies of the War. Edited by David Kinley. Oxford University Press, New York. 1919. x + 232 pp.

Describes position as regards England's food problem before war, the change during war in domestic production and in trade in agricultural products, and Government activities as regards increase of production and control of consumption and price of food. Discusses results of Government policy and follows up the course of prices.

Highland and Agricultural Society of Scotland. *Transactions*, 1915, &c. (5th series, vol. 27, &c.). W. Blackwood & Sons, Edinburgh and London.

Contain statistics of quantities and prices of wheat, barley, oats and beans in Edinburgh market weekly, in 1914, &c.

—— *Transactions*, 1918 (5th series, vol. 30), pp. 184–294.

Report of Conference on the Improvement of Agriculture, held at Edinburgh,

Aug. 1917. Speakers deal mainly with future prospects but some reference made to war conditions (e. g. work of the Agricultural Committees in Scotland, position with regard to fertilizers and feeding stuffs and effect of Government action).

Hilton, John. 'The Foundations of Food Policy,' in *Ed. R.*, July 1917 (vol. 226), pp. 28–50.

Reviews Report of Royal Society on Food Supply of the United Kingdom (Cd. 8421). Discusses measures for increase of supply, difficulty of price fixing, inconsistencies in Government policy (action of Food Controller and Food Production Department).

Jones, L. M. Meyrick. 'Motor Power and the Food Supply,' in *Organiser*, July 1918 (vol. 23), pp. 41–5.

Describes organization for supply of tractors and progress made in their use.

Keeble, Frederick. 'Intensive Cultivation' (Presidential address), in *Report of British Assoc.*, 1920, pp. 200–14.

Describes growth of intensive cultivation during war and its contribution to food supply, and discusses future prospects.

Kelly, Dr. (Lord Bishop of Ross). The War and Ireland's Food Supply. *Vide* under IRELAND (Dept. of Agric. and Tech. Instruction), *supra*, p. 145.

Kinross, Agnes. 'Poultry in War-time,' in *The Scottish Farmer Album* for 1919, pp. 126–9.

Gives practical advice as to poultry keeping. Discusses effects of Government orders and criticizes fixing of prices.

Mackintosh, James. 'The New Agricultural Policy and the Dairy Farming Industry,' in *Jl. Roy. Agric. Soc.*, 1917 (vol. 88), pp. 1–24.

Discusses what effect the encouragement of corn growing and also control of milk prices is likely to have on dairy farming, with some information as to what is already taking place.

—— 'Dairy Farming in relation to the Nation's Food Supply.'

Vide infra, p. 196.

Malcolmson, V. A. 'The Economic Future of Agriculture,' in *Jl. of Farmers' Club*, Ap. 1919, pp. 39–57 (with discussion).

Discusses future position. Gives typical balance sheets showing cost of growing an acre of wheat in 1917–18 compared with 1913–14.

Malden, W. J. 'The Cost of Producing Crops: Before the War and Now,' in *Farmer and Stockbreeder Year Book*, 1916, pp. 105–8.

Discusses increase of costs of production generally. Gives estimate of cost of keeping a horse and producing crop of barley in October 1915 compared with pre-war cost.

—— 'The Farm Tractor,' in *Purdon's Almanac* for 1920, pp. 53–62.

Discusses extent to which tractor has proved successful and prospects of future development.

Matthews, A. T. 'Stockbreeding and the War,' in *Purdon's Almanac* for 1919, pp. 34–8.

Discusses prospects of dairy farming, effect of control of milk, effect of war on breeding of pedigree stock, reduction in number of sheep and pigs, etc.

—— 'The World's Shortage of Live Stock,' in *Ibid.* for 1920, pp. 39–46.

Discusses position and prospects as regards live stock in United Kingdom, causes of decline in number of sheep during war, &c.

Middleton, Sir Thomas H. 'Systems of Farming and the Production of Food: the Need for more Tillage,' in *Jl. Bd. Agric.*, Sep. 1915 (vol. 22), pp. 520–33.

Discusses probable amount of food produced under different systems of farming and food value of different kinds of produce. Paper read at meeting of *British Assoc.*, 1915.

—— Farming of the United Kingdom in Peace and in War: the Plough Policy and its Results. 1920. 13 pp. (Reprinted from *Jl. Ministry Agric.*, Mar. 1920 (vol. 26), pp. 1192–204).

Discusses position of British agriculture before war, the results of the plough policy as shown by statistics of cropping and yield of crops, and extent to which United Kingdom could become self-supporting.

Nature, Jan. 6, 1916 (vol. 96), pp. 510–11. 'The Export of Feeding Stuffs and Fertilizers.'

Discusses question of exports of fertilizers and feeding stuffs to neutral countries. Refers to arrangement made by Board of Agriculture for satisfying farmers' requirements, rise in price since termination of this arrangement, difficulties of transport to farmers.

O'Brien, Cruise. *Vide* GORDON, L. SMITH- and O'BRIEN, CRUISE, *supra.*

Orr, John. Agriculture in Berkshire: A Survey made on behalf of the Institute for Research in Agricultural Economics, University of Oxford. Clarendon Press, Oxford. 1918. 208 pp.

Survey made in 1916. Deals with conditions as to management, labour, soils, crops, live stock. Barely touches on effects of the war.

Orwin, C. S. The Farmer in War-time. Oxford Pamphlets, 1914–15. Oxford University Press. 1915. 20 pp.

Discusses effect of six months of war on British farming, e.g. steps taken to increase production, course of prices, recruiting, use of machinery.

—— 'The Place of Agriculture in Industry.' *Vide* RUSKIN COLLEGE, *infra.*

Pearse, A. W. The World's Meat Future. Constable & Co. 2nd ed. 1920. xvi + 335 pp.

Gives an account of the live stock position and meat prospects of all leading stock countries (foreign and colonial), including progress during the war. Includes (p. 2) a brief account of effect of war on flocks and herds and on consumption of meat in Great Britain.

Prothero, Rowland E. 'Patriotism and Agriculture,' in *Ed. R.*, Oct. 1915 (vol. 222), pp. 406–25.

A defence of the farmers. Discusses charges of unpatriotism brought against them (under-cultivation, profiteering, payment of inadequate wages, &c.).

Raffety, Harold V. 'Agricultural Executive Committees and their Work,' in *Trans. Surveyors' Inst.*, 1917–18 (vol. 50), pp. 29–80 (with discussion).

Describes work of the Agricultural Executive Committees in Bucks, &c.

Rew, Sir R. Henry. Food Supplies in War-time. Oxford Pamphlets. Oxford University Press. 1914. 19 pp.

Discusses imports of food in first three months of war, the comparatively small rise in price and favourable outlook.

—— 'Farming and Food Supplies in Time of War' (Presidential Address), in *Report of British Assoc.* for 1915, pp. 760–9. (Reprinted in *Jl. Bd. Agric.*, Sep. 1915 (vol. 22), pp. 504–20).

Touches on question of farmer's profits, Government action *re* food supplies, &c.

—— 'The Prospect of the World's Food Supplies after the War,' in *Jl. Roy. Stat. Soc.*, Jan. 1918 (vol. 81), pp. 41–74 (with discussion).

Gives brief review of change in bread supply of United Kingdom during war. Shows extent of State interference in regard to production and results as shown in yields (1914–17), discusses difficulties of production, &c.

—— 'The Feeding of the United Kingdom,' in *Jl. Roy. Agric. Soc.*, 1919 (vol. 80), pp. 1–21.

Rew, Sir R. Henry (*cont.*)

Discusses statistics of imports of the different kinds of food during the war, sources of supply, increase of production in various countries and future prospects.

—— Food Supplies in Peace and War. Longmans, Green & Co. 1920. vii + 183 pp.

In three parts, dealing with position as to supplies before, during, and after the war. Part II (pp. 30–95) discusses the effect of war on world's supplies, describes the measures taken in United Kingdom to increase production and to control supplies and distribution and fix prices, discussing difficulties and results.

Ruskin College. Some Problems of Urban and Rural Industry. The Re-organisation of Industry Series, II. 1917. Ruskin College, Oxford.

Pp. 65–78, 'The Place of Agriculture in Industry,' by C. S. Orwin (with discussion). Discusses policy of self-sufficiency in agriculture. Examines organization of the farming industry and position of agricultural worker and discusses policy of large scale production or industrialization of agriculture.

—— Some Economic Aspects of International Relations. The Re-organisation of Industry Series, III. 1917. Ruskin College, Oxford.

Pp. 6–36, 'Commercial Policy and our Food Supply,' by H. Sanderson Furniss (with discussion). Outlines principles underlying economic policy of United Kingdom before war, and discusses question whether policy of agricultural self-sufficiency and methods suggested for effecting it are justifiable. Suggests development of agriculture by economic means and emigration.

Russell, E. J. Manuring for Higher Crop Production. Cambridge University Press. 1916. 69 pp. 2nd ed. 1917. vi + 94 pp.

Primarily a text-book. Aims at increasing food supply by use of suitable manures.

—— 'Agricultural Chemistry,' in *Reports of the Progress of Applied Chemistry*, issued by Soc. of Chemical Industry, 1918 (vol. 3), pp. 342–61; 1919 (vol. 4), pp. 365–76; 1920 (vol. 5), pp. 370–88.

Gives an account of the researches made in agricultural chemistry, especially as regards fertilizers and substitute feeding stuffs.

Scottish Farmer Album for 1916, pp. 144–52. 'Fat Cattle, Annus Mirabilis: Aug. 1914–July 1915,' by 'Nemo'. Scottish Publishing Co., Glasgow.

Discusses course of prices of cattle and effect from point of view of butchers and farmers. Gives statistics of weekly average prices of cattle at a Scottish market and deduces the price of dead meat.

Shanahan, B. W. Animal Foodstuffs: Their Production and Consumption, with a special reference to the British Empire. George Routledge & Sons. 1920. 325 pp.

Discusses conditions as to production and consumption of animal foodstuffs in various countries. Main portion of the book deals with pre-war situation and future prospects and only incidentally with war conditions. Contains a section (pp. 310–18) on 'Some effects of the war upon the production and consumption of animal foodstuffs', discussing effects in United Kingdom and other countries (slaughter of stock, shortage of fertilizers, decline in production of cereals, alterations in standard of living, &c.), and future prospects.

Smetham, Alfred. 'Some Effects of War Conditions on Agriculture,' in *Jl. Roy. Lancs. Agric. Soc.*, 1916, pp. 25–48. 'Present Position in relation to Fertilizers and Feeding Stuffs,' in *Ibid.*, 1918, pp. 49–70. 'Some Problems of Recovery and Reconstruction in Agriculture,' in *Ibid.* 1919, pp. 13–35. 'The Agricultural Policy of the Immediate Future,' in *Ibid.*, 1920, pp. 13–32.

Discusses position as regards supply of

fertilizers and feeding stuffs and the value of substitutes, explains Orders issued by Ministries of Munitions and Food, &c.

Spencer, Aubrey John. The Corn Production Act, 1917, annotated and explained, with Regulations of the Board of Agriculture and Fisheries thereunder. Stevens & Sons. 1918. 80 pp.

Tetley, R. H. 'Reaping the Tares,' in *E. R.*, Mar. and Ap. 1918 (vol. 26), pp. 267–74, 347–55.

Criticizes Food Production Department, discussing results of wheat cultivation programme.

Thompson, W. H. 'The Food Value of Great Britain's Food Supply,' in *Economic Proceedings of Royal Dublin Society*, Mar. 1916 (vol. 11), pp. 168–220.

Discusses in some detail the amount of food supplies, the energy value and the distribution of foodstuffs per man and briefly directions in which economy can be practised.

Tweedy, Robt. N. 'Agricultural Tractors,' in *Better Business*, Feb. 1918 (vol. 3), pp. 119–37; May 1918 (vol. 3), pp. 268–87; Nov. 1918 (vol. 4), pp. 51–70; Feb. 1920 (vol. 5), pp. 140–52.

Reviews position of the agricultural tractor industry, from standpoint of giving advice to farmers in choosing type of machine. Discusses progress made in development of design, cost of working, &c., of different makes. Refers to rapid growth in demand during war.

Vickers, R. Douglas. 'Power Traction in Modern Farming,' in *Purdon's Almanac* for 1919, pp. 51-9.

Refers briefly to development of farm tractor during war and discusses its uses for farmers of small and moderate holdings.

Wallace, Robert. Food Control Mismanagement: The Tragedy of Milk Production.

Vide infra, p. 196.

Whetham, Wm. Cecil D. The War and the Nation: a Study in Constructive Politics. John Murray. 1917. ix + 312 pp.

Chap. II, pp. 37–115, 'The Land'. Surveys present condition of British agriculture and discusses future possibilities, financial prospects of arable farming, policy of guaranteed price and minimum wage, &c.

Wood, T. B. The National Food Supply in Time of War. University Press, Cambridge. 1917. 43 pp.

Discusses consumption of food and fodder before war, estimate for 1917–18 of requirements of population and cereals and fodder available, and suggests policy to be pursued.

Worsfold, W. Basil. The War and Social Reform. John Murray. 1919. viii + 248 pp.

Chap. II, pp. 29–87, 'The Revival of Agriculture'. Discusses pre-war position, steps taken to improve home-grown food supplies during war, prospects of employment in agriculture, land settlement.

℄ *Trade Journals:*

Economist. Weekly.

Contains, *passim*, articles on agriculture and food supply.

Farmer and Stockbreeder and Chamber of Agriculture Journal. Weekly. 1*d*.

Largely practical advice, but contains also criticism of Government action (*re* prices for wool, milk, cattle, &c., &c.). Gives prices of wheat, &c. at Mark Lane and Liverpool and reports of markets.

Farmers' Gazette. Dublin. Weekly. 1*d*.

Contains information as to course of agriculture in Ireland, effects of the war, discussions *re* Government regulations and control, &c. Weekly reports of markets for live stock and farm produce and statistics of numbers and prices of live stock at Dublin markets, prices of feeding stuffs and fertilizers at Dublin.

Live Stock Journal. Weekly. 4*d*.

Contains some information as to effect of war conditions and Government regulations on live stock breeding, e.g. discusses question of supply of horses for army, need for Government encouragement of light horse-breeding industry, prohibition of racing, &c.; criticizes Government procedure *re* purchase of wool, meat prices, &c.

London Corn Circular. Twice weekly. 37*s*. p. a.

Consists largely of statistics. Prices of grain, flour, potatoes, hay and straw, farm seeds and fertilizers. Reports on state of markets. Also reports of meetings, comments on Government action, &c.

Mark Lane Express Agricultural Journal and Live Stock Record. Weekly. 3*d*.

The official organ of the National Farmers' Union. Contains a fair amount of information as to effect of war on agriculture, Government action, supply of labour, &c. &c. Reports of meetings of Farmers' Union, reports of discussions in Parliament. Weekly supplement, 'Review of the British Corn Trade', gives reports of country corn and cattle markets, prices of grain and flour in London, of butter, eggs and other farm produce in different markets, of fertilizers and feeding stuffs, &c.

Miller. Weekly. 13*s*. p. a. Large issue monthly.

Gives London Corn Exchange quotations and Liverpool spot prices of wheat, flour, and other grain, reports of markets, &c. Monthly large issue contains, besides technical articles, some information as to effect of war on milling trade (supply of labour, comments on Government action, &c.), reports of meetings of Trade Associations, questions in Parliament, &c.

North British Agriculturist. Edinburgh. Weekly. 2*d*.

Discusses much the same range of subjects as the *Scottish Farmer*, *infra*.

Scottish Farmer. Glasgow. Weekly. 2*d*.

Contains information as to effect of war on farming in Scotland (supply of labour, employment of women, &c.), criticism of Government action (e.g. *re* wool embargo, supplies of fertilizers, control of milk, meat, &c.). Weekly reports of markets. Prices of live stock and quantities sold at various Scottish and Irish markets, prices of wheat and grain at Glasgow and Edinburgh.

2. ALLOTMENTS AND SMALL HOLDINGS[1]

¶ *Acts of Parliament:*

Irish Land (Provision for Sailors and Soldiers) Act, 1919. 9 & 10 Geo. V. c. 82. 5 pp.

Land Settlement (Facilities) Act, 1919. 9 & 10 Geo. V. c. 59. 19 pp.

Land Settlement (Scotland) Act, 1919. 9 & 10 Geo. V. c. 97. 16 pp.

Local Government (Allotments and Land Cultivation) (Ireland) Act, 1917. 7 & 8 Geo. V. c. 30. 2 pp.

Small Holding Colonies Act, 1916. 6 & 7 Geo. V. c. 38. 4 pp.

Ibid. (Amendment) Act, 1918. 8 & 9 Geo. V. c. 26. 1 p.

¶ *Official Publications:*

Board (later **Ministry**) **of Agriculture.** Pembrey Farm Settlement, Report on. 1920, Cmd. 851.

Vide infra, p. 519.

—— Settlement on the Land of Discharged Sailors and Soldiers. Pt. I of Final Report.

Vide infra, pp. 518–9.

—— Small Holdings and Allotments Acts, &c., Report of proceedings under, for 1914. Pt. I.

[1] *Vide* also under AGRICULTURE: GENERAL, § B, 1, *supra*, and CO-OPERATION, B. 3, *infra*, pp. 167–70.

Small Holdings. Pt. II. Allotments and Miscellaneous. 1914–16, Cd. 7851, 7892, vol. 5. 218 pp.

Pt. I (52 pp.) gives statistics as to land acquired for small holdings, number of applications, &c., effect of war (purchase of land stopped). Pt. II (pp. 53–218) statistics as to area let as allotments, number of applications, quantity of land purchased, &c. (No further Annual Reports issued during war, but see next item.)

—— Small Holdings acquired under Small Holdings and Allotments Act, 1908, Report on working of. 1918, Cd. 9203, vol. 5. 6 pp.

Contains reports from County Councils stating proportion of success or failure among colonists (with reasons for failures), description of various classes of holdings, &c. (Period covered by report not definitely stated).

—— Small Holding Colonies Act, 1916, Annual Reports of proceedings under. — (Report, 1917) 1918, No. 34, vol. 5. 6 pp. — (Report, 1918) 1919, No. 115 (H.C.) and No. 111 (H.L.). 8 pp.

Describe method of purchase of land, estates acquired and conditions of purchase, &c., selection of applicants, number of settlers, crops grown, financial statements, &c. Report for 1918 gives information up to May 1919.

—— *Jl. Bd. Agric.* (*Vide supra*, p. 140.)

Contains, *passim*, notes and articles on progress of allotment movement, advice for cultivation, &c.

Ireland. Local Government Board for Ireland. Annual Reports. (*Vide supra*, p. 95.)

Reports for 1916–17 (pp. xxi–iv) and 1917–18 (pp. xxiv–vi) contain information as to action taken by local authorities in provision of allotments, supply of seed potatoes, &c.

Ministry of Pensions. *Réveille*, No. 3, Feb. 1919, pp. 457–71. (I) 'Land Settlement and the Disabled,' by Major C. Reginald Harding. (II) 'Proposed Victory Colony at Meathop, near Grange-over-Sands, for Disabled Ex-service Men,' by Thos. H. Mawson. (III) 'Village Centres,' by R. Fortescue Fox.

I. Discusses openings for disabled on the land and gives brief account of action taken with regard to establishment of small holding colonies. II. Discusses proposed scheme for rebuilding sea-wall and forming a colony. III. Describes objects of Village Centres Council and proposed opening of a centre at Enham.

Scotland. Board of Agriculture. Small Farms and Small Holdings in Scotland, Interim Report on the Economics of. H.M.S.O. 1919. 98 pp.

Describes in some detail, with statistics, types of small holdings and small farms in different districts in Scotland; discusses capital required for working and economic position of the small-holder, giving statistics of working of typical small holdings (mainly pre-war). Draws conclusions as to most satisfactory type of holding, assistance to be given from public funds, &c.

¶ *Books and Periodicals:*

Butcher, Gerald W. Allotments for All: The Story of a Great Movement. Geo. Allen & Unwin. 1918. 96 pp.

Describes demand for allotments in London, opposition of L.C.C., growth of movement, social advantages, success of allotments in meeting food shortage, &c.

Economist. May 22, 1915 (vol. 80), pp. 977–9. 'The Progress of Small Holdings.'

Comments on and explains annual report of Board of Agriculture (Cd. 7851).

Fox, R. Fortescue. 'Village Centres.' *Vide* under MINISTRY OF PENSIONS, *supra*.

Green, E. E. 'The Allotment

Movement,' in *C. R.*, July 1918 (vol. 114), pp. 90–6.

Pleads for security of tenure. Discusses advantages of allotments. Gives figures of value of food-stuffs produced and growth in number of allotments.

Harding, C. Reginald. 'Land Settlement and the Disabled.' *Vide* under MINISTRY OF PENSIONS, *supra*, p. 166.

Mawson, Thos. H. 'Proposed Victory Colony . . . for Disabled Ex-service Men.' *Vide* under MINISTRY OF PENSIONS, *supra*, p. 166.

3. AGRICULTURAL CO-OPERATION[1]

¶ *Official Publications :*

Board of Agriculture. *Jl. Bd. Agric.* (*Vide supra*, p. 140).

Contains, *passim*, notes and articles on progress of agricultural co-operation, co-operative cheese schools, milk dépôts, &c. (And *vide* article by Carr, R. H., *infra*).

Board of Trade. *Labour Gazette*, Ap. 1916 (vol. 24), pp. 121–2 and Nov. 1917 (vol. 25), pp. 397–8. 'Co-operation in Agriculture in 1914 [1915].'

Gives particulars as to number of societies, membership, sales, &c. (in aggregate).

Development Commission. 10th Annual Report, for 1919–20. 1920, No. 230. (*Vide supra*, p. 142.)

Deals with assistance given by Commissioners to Agricultural Organization Societies of United Kingdom and progress of agricultural co-operation.

Registry of Friendly Societies. Annual Reports of Chief Registrar. Parts B. Industrial and Provident Societies. (*Vide infra*, p. 443.)

Contain information as regards operations of Agricultural Co-operative Societies, membership, sales, number of societies, &c. (showing expansion during war).

Scotland. Board of Agriculture for Scotland. Agricultural Credit and Organization in France, Report by H. M. Conacher and W. R. Scott on, with suggestions for a Scottish scheme of Agricultural Credit. H.M.S.O. 1920. 69 pp.

—— *Ibid.* Women, employment of, in Agriculture in Scotland, Report of Committee on. 1920. (*Vide infra*, p. 491).

Discusses (pp. 29–30; and, *passim*, in extracts from evidence) the growth of agricultural co-operation in Scotland during war.

¶ *Books and Periodicals :*

Agricultural Organization Society. Annual Reports for 1914–15, &c. 40 Broadway, Westminster.

Describe progress of agricultural co-operation, co-operation of A.O.S. with Government Departments in food campaign, co-operative allotments and slaughter-houses, Women's Institutes, &c., &c. Statistics of numbers, membership and sales of Agricultural Co-operative Societies.

—— *Co-operation in Agriculture.* The Journal of the A.O.S. Monthly. 1*d.* (Discontd. after Sep.–Oct., 1915.)

Contains information as to progress of agricultural co-operation, meetings of A.O.S., &c.

—— *News and Notes.* From April 1918 to Sep. 1919 (discontd.). Usually monthly.

Contain notes as to progress of agricultural co-operation, co-operative allot-

[1] *Vide* also under AGRICULTURE: GENERAL, § B, 1, *supra*, pp. 135–64, and LABOUR: CO-OPERATION, § V, A, 9, *infra*, pp. 453–60.

ments, Government slaughter-houses managed co-operatively, &c. Some reference to Government control, e.g. of milk.

Carr, R. H. 'The Progress of Agricultural Co-operation in England and Wales since the Armistice,' in *Jl. Bd. Agric.*, Aug. 1920 (vol. 27), pp. 428–36.

Describes history and constitution of the Agricultural Organization Society, progress since Armistice and policy.

Co-operative Reference Library, Dublin. *Bulletin*, May 1915, pp. 275–320, 'Irish Agriculture and the War.'

Discusses position as regards increase of tillage in Ireland and small progress made owing to opposition of Department of Agriculture to Irish Agricultural Organization Society.

Gordon, Lionel Smith-. Food Shortage and its Remedy: The Case against the Department. Hodges, Figgis & Co., Dublin. June 1915. 55 pp.

A reprint, with minor alterations, of 'Irish Agriculture and the War' (*vide supra*, Co-operative Reference Library).

—— Co-operation for Farmers. Williams and Norgate. 1918. xiv + 247 pp. Bibliography.

Describes aims of co-operative movement, historical development, types of societies and their working in Ireland and abroad; discusses relations with State, future of the movement, relations between industrial and agricultural co-operation, &c.

—— and **Staples, Laurence C.** Rural Reconstruction in Ireland: A Record of Co-operative Organizations. P. S. King & Son. 1918. xiii + 279 pp.

Gives an account of land legislation and its results, history of Irish co-operative movement and its principles and aims, formation and work of the I.A.O.S., description of the creameries, agricultural societies, &c., relations between I.A.O.S. and Department of Agriculture, relations between agricultural and industrial co-operation, &c. Discusses results (economic, social and educational) of co-operative movement and future development. Gives statistics (up to 1915 or 1917) of the creameries, agricultural societies, credit societies, I.A.W.S. and Irish Co-operative Agency Society.

Irish Agricultural Organization Society. Annual Reports for 1914–15, &c. I.A.O.S., Plunkett House, Dublin.

Contain fairly full accounts of progress of agricultural co-operation during the year, number of societies formed and dissolved, addresses of President and Vice President at annual General Meeting, &c. Detailed statistics of individual societies (number of shareholders, capital, turnover, profit and loss, &c.).

Irish Agricultural Wholesale Society. *The I.A.W.S. Bulletin.* Monthly. 1*d.* 151 Thomas Street, Dublin.

Contains information as to progress of co-operation in Ireland, agricultural and distributive.

Scott, Leslie. 'Agricultural Organization,' in *Jl. of Farmers' Club*, Nov. 1918, pp. 121–43 (with discussion).

Discusses in a general way recent progress of agricultural organization and urges increased need for it.

Scottish Agricultural Organization Society. Annual Reports for 1914, &c. Edinburgh.

Staples, Laurence C. *Vide* Gordon, Lionel Smith- and Staples, Laurence C., *supra*.

¶ *Journal:*

Irish Homestead. Dublin. Weekly. 2*d.*

'The organ of Irish agricultural and industrial development.' Contains information as to progress of co-operation (mainly agricultural) during war, practical advice to farmers, criticism of Government policy of food production and food control as it affects the Irish farmer.

C. BUILDING TRADES

Vide under HOUSING, § I, C, *supra*, pp. 25–50.

D. CLERICAL AND COMMERCIAL OCCUPATIONS

Vide under WOMEN: IN CLERICAL, &c., OCCUPATIONS, § V, D, 2, e, *infra*, pp. 495–6.[1]

E. DISTRIBUTIVE TRADES[2]

¶ *Official Publications:*

Home Office. Retail Trade, and Enlistment, Report on.
Vide infra, p. 386.

Scotland. Distributing Trades in Scotland, Reports on.
Vide infra, p. 388.

¶ *Books and Periodicals:*

Ashford, E. B. 'Women in Distributive Trades.'
Vide infra, p. 495.

Trade Union Journal:
The Shop Assistant.
Vide infra, p. 452.

F. FISHERIES AND FISH TRADE[3]

¶ *Official Publications:*

Board (later **Ministry**) **of Agriculture and Fisheries.** Freshwater Fisheries, Departmental Committee on the present position of. Final Report. H.M.S.O. 1920. 48 pp.

Discusses extent to which freshwater fish is available as source of food and describes steps taken during war to utilize it. Makes recommendations for improvement and development. (Gives substance of the two interim Reports, not published separately.)

—— Salmon and Freshwater Fisheries Acts, Report of Proceedings under, for 1915 to 1918. 1919, Cmd. 497. 123 pp.

Gives statistics of catch of salmon, quantities received at Billingsgate, &c. Refers to relaxation of fishing restrictions owing to food shortage.

—— Sea Fisheries, Annual Report on, for 1914. 1914–16, Cd. 8102, vol. 22. xxxv + 129 pp.

Refers very briefly to effect of war. Statistics of fish landed, number and tonnage of fishing boats, numbers engaged in sea-fishing, imports and exports.

—— Fisheries in the Great War, being the Report on Sea Fisheries for 1915 to 1918. 1920, Cmd. 585. xxxix + 194 pp.

Contains an account in some detail of the position of the fishing industry during the war, e. g. immediate effect of war and steps taken by Government, regulation and control of fishing operations, employment of fishing vessels on naval service, manpower problems, installation of motor engines in fishing boats, work of Fish Food and Motor Loan Committee, insurance of fishing vessels, orders made by Board of Agriculture and Fisheries under D.O.R.A., and by Food Controller, &c., &c. Statistics of fish landed, imports and exports, &c.

[1] For Civil Service, *vide* MACHINERY OF GOVERNMENT, § II A, *supra*, pp. 75–82; INDUSTRIAL COUNCILS IN GOVERNMENT ESTABLISHMENTS, § V, A, 7, b, *infra*, pp. 441–2; WOMEN IN CIVIL SERVICE, § V, D, 1, d, *infra*, pp. 493–4.

[2] *Vide* also CO-OPERATION, § V, A, 9, *infra*, pp. 453–60.

[3] For losses of fishing vessels, *vide* under SHIPPING, § IV, F, *infra*, pp. 349 *et seq.*

—— (1) Sea Fisheries Regulation Act, 1888, Report of proceedings at 25th Annual Meeting of Representatives of Authorities under, June 22, 1915. 1914–16, Cd. 8018, vol. 22. 27 pp. (2) Minutes of Proceedings at 26th Annual Meeting, July 1, 1919. 1919, Cmd. 373. 17 pp. (3) *Ibid.*, at 27th Annual Meeting, July 13, 1920. 1920, Cmd. 999. 23 pp.

(1) Contains brief reference to effect of war on fishing industry and steps taken by Government. (2) and (3) Discuss mainly post-war and general problems (pollution, scientific research, assistance for demobilized fishermen, recovery of fishing industry from effects of the war, difficulties in distribution of fish, &c.).

Board of Trade. Profiteering Act, 1919. Fish Trade, Findings by Committee appointed to inquire into. 1920, Cmd. 514. 6 pp.

Describes organization of the industry, discusses existence of 'rings' and makes recommendations for improvement as regards transport, storage, &c.

Development Commission. 10th Annual Report, for 1919–20. 1920, No. 230. 242 pp.

Chapters xiii-xv (pp. 190–235). Give a review of the work of the Development Commission since its establishment, with regard to fishery research; work of the Fisheries Organization Society and fishermen's co-operative societies, working of motor loan scheme, provision of boats for demobilized fishermen; construction and improvement of harbours.

Ireland. Dept. of Agric. and Tech. Instruction. Irish Coarse Fish Committee, Report of. H.M.S.O. 1919. 8 pp.

Gives an account of the steps taken to increase supply of freshwater fish from Irish lakes and rivers, difficulties in marketing, &c.

—— *Ibid.* Sea and Inland Fisheries, Annual Reports on. — (Report for 1914) 1914–16, Cd. 8084, vol. 22. xx + 99 pp. — (Report, 1915) 1916, Cd. 8392, vol. 9. xviii + 27 pp. — (Report, 1916) 1918, Cd. 9018, vol. 10. xvi + 28 pp.—(Report, 1917) 1919, Cmd. 44. xvi + 26 pp.—(Report, 1918) 1920, Cmd. 601. xvii + 116 pp.

Contain brief references to effect of war on fishing industry. Statistics of fish landed.

Ministry of Food. Wholesale Food Markets, Departmental Committee on. 2nd Report. 1920, Cmd. 713.

Vide infra, p. 182.

Ministry of Reconstruction. Reconstruction Problems. No. 29. British Fishermen and the Nation. I. Sea Fisheries. 12 pp. II. Salmon and Freshwater Fisheries. 18 pp. H.M.S.O. 1919.

I. Discusses importance of fishing industry from standpoints of food supply, national defence and healthy employment, steps to be taken for restarting of the industry, improvement of arrangements for distribution, &c. II. Discusses value of freshwater fisheries, habits and quality of fish, administrative problems, &c.

Scotland. Fishery Board for Scotland. Annual Reports.—(Report for 1914) 1914–16, Cd. 7976, vol. 22. lxviii + 303 pp.—(Report, 1915) 1916, Cd. 8281, vol. 9. xix + 109 pp. — (Report, 1916) 1917–18, Cd. 8625, vol. 14. xvi + 102 pp.—(Report, 1917) 1918, Cd. 9082, vol. 10. xvi + 104 pp. — (Report, 1918) 1919, Cmd. 231. xiv + 91 + 88 pp.—(Report, 1919) 1920, Cmd. 833. xxv + 80 + 94 pp.

Contain information as to effect of war on fishing and subsidiary industries, employment, control of cured fish, &c. Statistics of number, &c., of boats, fish landed, consumption of fresh and cured fish, exports, numbers employed in fisheries and subsidiary industries, &c. Report for 1914 contains reports of Inspectors

Scotland (*cont.*)

showing effect of war conditions in different localities. Report for 1918 contains a lengthy review of the Board's work during the war.

—— Scottish Freshwater Fisheries Committee. Interim, 2nd Interim and Final Reports. H.M.S.O. 1917, 1918, 1919. 4 pp., 3 pp., 7 pp.

Interim reports discuss possibilities of development of freshwater fishing as source of food supply and recommend measures to be taken; contain some reference to effect of war on freshwater fishing. Final report gives an account of experimental fishing operations during the past year, discusses questions of pollution, extension of powers of Fishery Board, &c.

—— Scottish Sea Fisheries Committee, Report of. H.M.S.O. 1917. 10 pp.

Gives an account of the difficulties experienced by Scottish fishing industry during war and measures taken, e. g. prohibition of export of pickled herrings and arrangements made for acquisition and control of distribution of cured fish; requisitioning of fishing vessels, installation of motor engines and arrangements made for securing priority; supply of manpower; difficulties in handling and treatment of fish when landed; problem of transport, &c. Statistics of number of herrings landed in Scotland and quantities pickled, freshed, &c., for 1912–17. Chart showing increase in steam drifters and motor boats, 1904–16.

¶ *Books and Periodicals :*

Dove Marine Laboratory, Cullercoats. Annual Reports for 1914–15, &c. Edited by Alex. Meek. Published by the Marine Laboratory Committee of Armstrong College on behalf of the Northumberland Sea Fisheries Committee and other contributing authorities. Newcastle-on-Tyne.

Contain accounts of scientific investigations.

Dunraven, Earl of. 'Diet and Debt,' in *N. C.*, Feb. 1917 (vol. 81), pp. 319–31.

Discusses effect of war on fishing industry, need for development of British and Canadian fishing and forms which State assistance should take.

Green, Neal. Fisheries of the North Sea. Methuen & Co. 1918. 178 pp.

Describes history and conditions of fishing industry in United Kingdom and other countries, habits of fish, &c. Only incidental references to results of war.

Jenkins, James T. The Sea Fisheries. Constable & Co. 1920. xvi + 299 pp.

Describes fisheries and fishery administration apart from effects of war (methods of fishing, description of trawling ground, development of steam trawling, education of fishermen, scientific research, &c., &c.). Statistics only up to 1913.

Lancashire and Western Sea Fisheries Joint Committee. Quarterly Reports of the Fisheries of the Irish Sea. L. & W.S.F.J.C., 16 Walton's Parade, Preston.

Give statistics in regard to the fisheries of the Irish Sea (men, boats, &c.).

—— Annual Reports of the Lancashire Sea Fisheries Laboratory at the University of Liverpool. Reprinted in *Proc. & Trans. Liverpool Biological Soc.*, 1914–15, &c.

Contain articles on fisheries investigations of various kinds in the Irish Sea (original scientific work both in the laboratory and at sea). Some reference made to state of fishing industry under war conditions.

Nature. Feb. 25, 1915 (vol. 94), pp. 709–10. 'The Sea Fisheries and the War,' by J. J.

Discusses effects of war on fishing industry, exports, fish landed, prices, &c.

Scottish Bankers' Magazine, July 1917 (vol. 9), pp. 121–4. 'The Scottish Herring Trade.'

Reviews difficulties experienced on

account of war and discusses present position.

Wood, Walter. Fishermen in War Time. Sampson Low & Co. London and Edinburgh. 1918. 239 pp.

Describes the part played by fishermen and the fishing fleet in naval operations during the war.

¶ *Trade Journal:*

Fish Trades Gazette, and Poultry, Game and Rabbit Trades Chronicle. Weekly. 4*d.*

The official organ of the National Sea Fisheries Protection Association. Very useful publication. Contains much information as to effect of war conditions and Government regulations on fishing industry, fish curing and fried fish trade. Reports of meetings of Trade Associations. Weekly reports of markets. Statistics of prices and supplies of fish at Billingsgate.

The Annual Spring number, March 26, 1916, contains a long article on 'The Fishing Industry and its Allied Interests in War time and After' (26 pp.), giving an account of the effect of war conditions on the fishing, fish curing and fried fish, &c., industries, on profits, on the different fishing ports and inland markets, &c., &c.

G. FOOD CONTROL[1]

1. GENERAL

¶ *Acts of Parliament:*

Army (Supply of Food, Forage, and Stores) Act, 1914. 4 & 5 Geo. V. c. 26. 1 p.

Defence of the Realm (Beans, Pease and Pulse Orders) Act, 1918. 8 & 9 Geo. V. c. 12. 3 pp.

Defence of the Realm (Food Profits) Act, 1918. 8 & 9 Geo. V. c. 9. 1 p.

Ministry of Food (Continuance) Act, 1920. 10 & 11 Geo. V. c. 47. 4 pp.

New Ministries Act, 1916. 6 & 7 Geo. V. c. 68. 5 pp.

Provides for establishment of Ministry of Food.

Unreasonable Withholding of Food Supplies Act, 1914. 4 & 5 Geo. V. c. 51. 1 p.

¶ *Official Publications:*

Manuals of Emergency Legislation. Food Supply Manual. 1st ed. revised to May 15, 1917. vi + 112 pp.

—— Food (Supply and Production) Manual (1st enlarged ed. superseding Food Supply Manual of May 1917), revised to Oct. 21, 1917. With addenda up to Jan. 31, 1918. xxxiv + 630 pp.

—— Orders of the Food Controller, being Pt. II of the Food (Supply and Production) Manual, revised to Jan. 31, 1918. x + 374 pp.

—— Food Control Manual, revised to Ap. 30, 1918 . . . being a revised and enlarged ed. of Pts. I, II, and III of the Food (Supply and Production) Manual. xxxi + 615 pp.

—— Food Supply Manual, revised to July 31, 1918, comprising the Food Controller's Powers and Orders and Orders of other Departments ancillary thereto. iii + 701 pp. Suppt., Dec. 31, 1918. xxv + 320 pp. Suppt. (No. 2), May 10, 1919. xliv + 133 pp.

—— Food Supply Manual, revised to Nov. 30, 1919. xcii + 549 pp. Suppt., Ap. 5, 1920. xvi + 96 pp.

[1] *Vide* also many of the items under AGRICULTURE, § III, B, *supra*, pp. 135–70.

First four edited by Alex. Pulling, subsequent editions by Sir Chas. Cook. H.M.S.O.

The first edition (May 15, 1917) comprises legislation affecting Food Controller, Orders issued by him and by Board of Trade. Gives summary of history of food supply legislation from Nov. 15, 1916 to May 2, 1917. Expired or revoked Orders are included by title only (text given in Defence of Realm Manuals, *supra*, p. 84). *Vide* also (for Orders, &c., issued by Board of Agriculture, Proclamations *re* sugar, &c.) Manual of Emergency Legislation, Sep. 30, 1914, and Supplements (*supra*, pp. 83–4).

First enlarged edition (Oct. 21, 1917) contains powers of Food Controller and Orders made by him, Corn Production Act and regulations and memoranda thereunder, powers and Orders of Board of Agriculture, &c., under Defence of Realm Regulations, Food powers of Admiralty, Army Council and Ministry of Munitions, &c. Deals with enforcement of Food Controller's Orders, Food Control Committees and discharge of local authorities' functions, trial and punishment of offences, &c. Appendices contain *inter alia* Maintenance of Live Stock Act and Orders, regulations by Board of Trade, epitome of Acts and Orders indirectly affecting food supply, e. g. *re* allotments, fertilizers and feeding stuffs, agricultural machines, &c.

Subsequent editions contain Orders of Food Controller and of other Departments ancillary thereto (e. g. Local Government Board, Board of Agriculture, &c.) in force at given dates.

Board of Trade. Prices of Commodities, Departmental Committee appointed to investigate the principal causes which have led to the increase of, since the beginning of the war. Interim Report (on Meat, Milk, and Bacon). 1916, Cd. 8358, vol. 14. 20 pp. — 2nd and 3rd Reports (Bread, Flour and Wheat Prices; Freight Charges; and Potato, Tea and Sugar Prices). 1917–18, Cd. 8483, vol. 18. 22 pp.

Discuss, with statistics, the course of prices of the various commodities, the causes of increase, the question whether undue profits are made, action taken by Government, method of distribution, &c.

—— Profiteering Acts. Fruit, Price of, in U.K., Findings of a Sub-Committee of the Standing Committee on Trusts on. 1920, Cmd. 878. 10 pp.

Discusses alleged existence of a combine, policy of forward contracts, reasons for increase in prices in 1919, effect of control of jam prices.

—— *Labour Gazette.*

For articles dealing with prices of food, *vide infra*, pp. 584–5.

Commission, Royal. Industrial Unrest, Reports of Commission of Enquiry into. (*Vide infra*, p. 425.)

Contain information as to discontent caused by high food prices, alleged profiteering and unequal distribution of supplies, e. g. of sugar.

Committees. High Prices and Profits, Select Committee on. Special Report with Minutes of Evidence. 1919, No. 166. iv + 29 pp. Report with Proceedings of the Committee and Minutes of Evidence. 1919, No. 234. vi + 11 pp.

Special report contains (Qs. 1–287) interesting evidence by Food Controller as to methods of control, difficulty in fixing prices, effect of control, relations with Board of Agriculture and Ministry of Shipping, &c.; also evidence of Sir H. A. Rose (Qs. 288–370) as to food control in Scotland. Final Report contains evidence (Qs. 633–43, 661–3) dealing with trading accounts of Ministry of Food.

—— National Expenditure, Select Committee on. Public Accounts, Committee of. (*Vide supra*, pp. 87–9.)

The Reports of these Committees contain, *passim*, some information as to operations of Ministry of Food, and of Board of Trade (*re* purchase and sale of meat).

Department of Scientific and Industrial Research. Food Investigation Board, Reports of, for 1918

and 1919. H.M.S.O. 1919, 1920. 20 pp., 36 pp.

Describe the work of the Board with regard to preservation of fish, meat, fruit and vegetables, carriage of frozen produce, &c.

Local Government Board. Medical Officer, Annual Reports of. (*Vide supra*, p. 6.)

Contain short accounts of the work of the Inspectors of Food (e.g. inspection of food for army, inspection of meat and effect of Government control on sale of unsound meat).

Ministry of Food. Appropriation Account of the sum granted to defray the salaries and expenses of the Ministry for the year ended Mar. 31, 1919, with Report of Comptroller and Auditor General. 1920, No. 46. 5 pp.

Gives statement of expenditure. For salaries and expenses in 1916–17 and 1917–18 *vide* Vote of Credit Appropriation Account, 1916–17, and Civil Services Appropriation Account, 1917–18, pp. 378–80 (*vide supra*, pp. 91, 90). For statement of payments and receipts for purchase and sale of food-stuffs by Ministry of Food and report of Comptroller and Auditor General thereon, *vide* Vote of Credit Appropriation Accounts, 1917–18 and 1918–19 (*supra*, p. 91).

—— Financial Report with Appropriation Account, Trading Account and Balance Sheet for year ending Mar. 31, 1918. 1919, Cmd. 191. 8 pp.

Contains brief record of the work of the Ministry and explanatory notes on the accounts.

—— Provisional Trading Account for the financial year ending Mar. 31, 1919. 1919, Cmd. 286. 2 pp.

—— Story of Food Control. By Rt. Hon. J. R. Clynes. June 1918. Reprinted from *National Food Journal*, June 12, 1918. 18 pp.

Reprint of speech by Mr. Clynes in House of Commons, reviewing the work of the Ministry of Food.

—— Wholesale Food Markets of London, Departmental Committee on. 1st Report. 1920, Cmd. 634. 8 pp. 2nd Report. 1920, Cmd. 713. 8 pp.

(1) Discusses adequacy of existing markets for perishable food. Refers to increase of congestion during and since war, (2) Discusses question of waste of fish. Gives statistics of fish landed and of fish condemned at Billingsgate monthly for 1913, 1918, 1919, and landings at principal ports, and condemnations, to Ap. 1920.

—— *National Food Journal.* Sep. 12, 1917 to June 1920. Twice monthly (after Mar. 1919, monthly). 2*d.*

Contains articles on work of the Ministry, schemes of control of various commodities, food economy campaign, prices, National Kitchens, Consumers' Council, prosecutions, questions in Parliament, official orders, international organization for purchases of food, food control in foreign countries, &c.

Ministry of Health. 1st Annual Report, 1919–20. Pt. I. 1920, Cmd. 923. (*Vide supra*, p. 9.)

Deals (pp. 55–69) with inspection and supervision of food. Describes system of meat inspection during war (control of slaughter-houses by Ministry of Food and grading of cattle), inspection of meat for army, &c.

War Cabinet. Reports for 1917 and 1918. (*Vide supra*, p. 92.)

Report for 1917, pp. 166–84, and Report for 1918, pp. 249–65, deal with food control, problems of supply, conservation, distribution and price, and steps taken by Ministry of Food. Report for 1918 deals also with relaxation of control after Armistice and effect of control on stocks and prices.

¶ *Books and Periodicals :*

Adair, Wm. 'Farmers and Food Control,' in *Scottish Farmer Album* for 1919, pp. 115–18.

Discusses methods of control (of meat, milk, potatoes, &c.) from farmers' point of view, principles in price-fixing, danger of bureaucracy.

Berry, Walter W. 'Food Control and Hasty Decisions,' in *C. R.*, Feb. 1917 (vol. 111), pp. 183–9.

Criticizes action of Food Controller with regard to price of wheat and fixing of price and sale conditions of potato crop. Discusses policy of Board of Agriculture in encouraging food production.

Bowley, A. L. Prices and Wages in the United Kingdom, 1914–20. (*Vide infra*, p. 403.)

Chapter iii (pp. 32–61) gives a detailed statistical analysis of the course of prices of various kinds of food, 1914–20. Chapter v (pp. 76–86) compares wholesale and retail food prices, discussing question of profits of dealers and retailers. A summary of maximum food retail prices, Sep. 1917–Mar. 1920, is given in Appendix II (pp. 208–15).

Clynes, J. R. 'Food Control in War and Peace,' in *Econ. Jl.*, June 1920 (vol. 30), pp. 147–55.

Discusses scarcity of food and high prices due to war, criticizes new Profiteering Act, and advocates continuance of State control of food during period of scarcity.

Co-operative Union. Annual Reports of Co-operative Congress. (*Vide infra*, p. 453.)

Contain, *passim*, information as to action taken by Co-operative movement in regard to food prices, attitude of the movement towards Government food policy, &c.

—— Report of Co-operative National Emergency Conference.

Vide infra, p. 454.

Edinburgh Review, Jan. 1917 (vol. 225), pp. 196–208. 'Food Prices, a Warning.' Editorial Article.

Criticizes policy of fixing food prices and rationing.

—— Jan. 1918 (vol. 227), pp. 108–30. 'The Early Phases of Food Control,' by H. S.

Gives an account of the Government and inter-allied action *re* wheat, control of shipping, appointment and work of Food Controller. Criticizes policy of price-fixing and rationing.

Fortnightly Review, Jan. 1917 (vol. 101), pp. 951–62. 'Ministers and Ex-Ministers,' by 'Auditor Tantum'.

Criticizes food control policy.

Garvin, J. L. The Economic Foundations of Peace. Macmillan & Co. 1919. xxiv + 574 pp.

Pp. 40–54, 58–61. Gives an account of the growth of national (British) and international organization for control of food supplies.

Gattie, Alfred. 'How to solve the Food Problem,' in *N. C.*, Ap. 1918 (vol. 83), pp. 734–43.

Discusses unsoundness of policy of price-fixing, waste of food owing to transport delays, the shortage of potatoes in 1917, &c.

Hopkins, Charles P. 'National Service' of British Merchant Seamen, 1914–19. (*Vide infra*, p. 358.)

Pp. 74–6 ('Food and Food Scale in Merchant Ships') and Appendix, pp. 186–90. Gives account of difficulties experienced by seamen in procuring food and steps taken with regard to rationing.

Labour Year Book, 1919. (*Vide infra*, pp. 369–70.)

'The Ministry of Food' (pp. 178–82). Discusses work of the Food Controller, constitution and work of Local Committees, &c.

Mason, J. Wright. 'Food Inspection: Standard of Purity of Food Supply in war-time and the Utilization of Condemned Stores,' in *Jl. Roy. Sanitary Institute*, June 1916 (vol. 37), pp. 33–47 (with discussion).

Discusses present tendencies and prac-

tices with regard to inspection of food (especially meat) and makes recommendations as to extent to which pre-war standards could be relaxed.

Nature, Mar. 8, 1917 (vol. 99), pp. 27–8. 'The Potato Supply,' by F. K.

Criticizes the fixing of prices by Government for potatoes.

—— June 20, 1918 (vol. 101), pp. 304–6. 'Inter-allied Scientific Food Commission'.

Describes the work of the Commission and principles adopted for distribution of food.

Nicholson, J. S. War Finance. (*Vide infra*, p. 550.)

Contains three chapters (pp. 438–57) on the food shortage, criticizing Government measures. (Previously published as articles in the *Scotsman*.)

O'B[rien], C[ruise]. 'The Price of Food,' in *Better Business*, Nov. 1916 (vol. 2), pp. 74–87.

Criticizes recommendations of Departmental Committee on Food Prices. Gives instances of profiteering by milk retailers in Dublin.

People's Year Book for 1920, pp. 88–97. 'The C.W.S. and the War: a Record of Public Service.' Co-operative Wholesale Society, Manchester.

Gives an account of the policy of the Co-operative Wholesale Society as regards food prices and food control, co-operation with Government in purchases of food, work of co-operative representatives on Consumers' Council, &c.

Philip, Alex. J. Rations, Rationing and Food Control. The Book World. 1918. 162 pp.

Describes in some detail the development of rationing, the administrative system (position of Local Committees, &c.), methods adopted, difficulties experienced, &c. Author was the first to institute a scheme of rationing in England (at Gravesend).

Shadwell, Arthur. 'Food and Labour. (1) Food Prices and Food Supply,' in *N. C.*, Ap. 1917 (vol. 81), pp. 726–47.

Discusses course of prices since July 1914 and reasons for increase, meaning of profiteering and whether it has taken place.

Simmons, W. Anker. 'Food Control as affecting Agriculture,' in *Jl. of Farmers' Club*, Jan. 1918, pp. 2–19 (with discussion).

Writer (who is Agricultural Adviser to Ministry of Food) defends action of Food Controller, describing difficulties in fixing of prices. Discussion contains criticism of this action.

Underhill, G. E. 'The Food Problem, 1914–16,' in *Q. R.*, July 1918 (vol. 230), pp. 145–65.

Gives an account of the steps taken by Government to deal with food supplies.

—— 'British Rationing during the War,' in *Q. R.*, Oct. 1920 (vol. 234), pp. 280–98.

Detailed account, compiled with help of official records of Ministry of Food, of rationing measures from Dec. 1916, and their results. Compares British and German systems and gives reasons for considering British system a success.

¶ *Trade Journals*[1]:

Grocer and Oil Trades Review. Weekly. With monthly Oil Trade Suppt. 30*s.* p.a.

Contains leaders on current topics, wholesale market prices of all kinds of groceries, provision market reports (London and provinces, Scotland and Ireland), with prices and import figures, retail prices of bacon at London departmental stores, &c. Yearly review in January.

[1] *Vide* also *Co-operative Journals* (pp. 458–60, *infra*) for action of co-operative societies with regard to food prices and food control.

2. BREAD, FLOUR AND WHEAT[1]

¶ *Official Publications:*

Board of Agriculture. Indian Wheat Committee, Report of, for 1915 and 1916. 1918, Cd. 9090, vol. 8. 48 pp.

Describes events leading up to appointment of Committee in 1915, its work, difficulties of the scheme and measure of success, its discontinuance and taking over of control by Royal Commission on Wheat Supplies. Appendices contain official notifications *re* export of wheat, table giving prices fixed daily by Indian Firms' Committee, sales, prices of Chicago futures and Liverpool spot prices, table of freight chartered, financial statement of receipts and expenditure in connexion with scheme, &c., &c.

Board of Trade. Flour and Bread, manufacture of, and price of Milk, Orders *re*. 1916, Cd. 8400, vol. 24. 4 pp.

Contains Order as to percentage of flour to be obtained in process of milling.

—— Profiteering Acts. Biscuit Trade, prices, costs and profits at all stages of, Report on. 1920, Cmd. 856. 7 pp.

Discusses prices, costs, &c., at present time compared with pre-war period.

Commissions, Royal. Wheat Supplies, Royal Commission on. First Report, with Appendices. 1921, Cmd. 1544. vi + 95 pp.

Gives a full account of the work of the Commission from its appointment in 1916 to 1921, organization in U.K., organization of purchases overseas, shipment, distribution and conservation of supplies, Food Controller's Orders, financial position, working of the bread subsidy, international organization, methods adopted for decontrol. Statistics of stocks held on Government account, production, consumption, &c. Short bibliography of references (English, French and Italian) to work of Wheat Executive.

Committees. National Expenditure, Select Committee on. Public Accounts, Committee of. (*Vide supra*, pp. 87–9.)

The Reports of these Committees contain, *passim*, information as to operations of the Wheat Commission and working of the bread subsidy.

Ministry of Food. *National Food Journal*, Feb. 12, 1919 (vol. 2), p. 287. 'Control of Flour: Cereals and their Uses.'

Describes work of Flour and Bread Section of Ministry of Food.

Treasury. Vote of Credit, Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Contains (pp. 106–8) Trading and Profit and Loss Accounts of Royal Commission on Wheat Supplies for three years ending Aug. 31, 1919, with explanatory notes.

¶ *Books and Periodicals:*

Hubback, John H. 'War Times in the Grain Trade,' in *N. C.*, Sep. 1915 (vol. 78), pp. 651–63.

Discusses effect of war on supplies, effect on trade of Government action.

—— 'The Government and the Wheat Trade,' in *Econ. Jl.*, Dec. 1915 (vol. 25), pp. 533–41.

Gives description of the wheat trade, 1914–15, steps taken by Government, &c.

Jackson, C. Kains-. Articles on 'The Corn Trade', in *Jl. Roy. Agric. Soc.*, 1915 (vol. 76), pp. 49–73; 1916 (vol. 77), pp. 62–73; 1917, pp. 64–71; 1918, pp. 106–19; 1919, pp. 212–24.

Discusses effect of war on supplies and prices, with some comment on Government control.

[1] *Vide* also under FOOD CONTROL: GENERAL, § G, 1, *supra*, and AGRICULTURE, § III, B, *supra*, pp. 135–70.

Jago, Wm. 'Standard Bread,' in *Nature*, Nov. 23, 1916 (vol. 98), p. 230. 'Government Control over Flour,' in *Ibid.*, Nov. 30, 1916, pp. 250–1. 'Flour Standards,' in *Ibid.*, Jan. 1917 (vol. 98), p. 390.

Discusses Orders *re* milling of flour, saving effected, policy of making only one quality, &c.

Kirkland, John. Three Centuries of Prices of Wheat, Flour, and Bread. Published by Author at National Bakery School. 1917. 63 pp.

Chapter (pp. 36–56), prepared by Arthur Barker, on 'An Appreciation of the Main Factors in the Rise of Prices and Freights (1914–17)'. Discusses course of prices and cause of rise.

Chapter (pp. 57–63) on 'War Time Bread Prices'. Gives account of experiments made by Government in early days of war to reduce amount of grain used in bread-making and subsequent Orders. Prices of bread, Aug. 1914 to Aug. 1917.

Moreland, W. H. 'The War and Indian Wheat,' in *Q. R.*, July 1915 (vol. 224), pp. 94–107.

Describes export policy of Indian Government and conditions of production and consumption prevailing in India. Discusses possible effects of Government policy on production in India.

3. FISH

Vide under FISHERIES AND FISH TRADE, § III, F, *supra*, pp. 171–8.

4. MEAT[1]

¶ *Official Publications:*

Board of Trade. Meat Supplies for U.K., Means of securing sufficient, Report of Inter-departmental Committee on. 1919, Cmd. 456. 30 pp.

Discusses future prospects, measures to be taken to protect British interests and to increase meat production in U.K. and Dominions, &c. Incidental reference to control during war, e.g. contracts with Australia, &c., Government operation of freezing works in Argentine, control of insulated shipping, opinions as to continuance of control.

—— Profiteering Acts. Meat, Interim Report on, by a Sub-Committee of Standing Committee on Trusts. 1920, Cmd. 1057. 13 pp.

Discusses operation of American Meat Trusts and recommends measures to be taken to protect British interests. Describes methods of disposing by butchers of hides, fats and other by-products and discusses alleged existence of combinations of buyers.

Ministry of Food. *National Food Jl.*, Jan. 22, 1919 (vol. 2), pp. 267–8. '"Per Head" Charges on Cattle and Sheep: Regulation from the Farm to the Nation's Dinner Table'.

Describes methods adopted by Food Controller for regulating prices and supplies of meat.

Treasury. Vote of Credit, Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Contains (pp. 92–4) account of operations of Board of Trade with regard to purchase of frozen meat (mainly for army) and pp. 98–9) trading accounts to March 31, 1919, of Frozen Meat Supplies Dept.

¶ *Books and Periodicals:*

Philip, Alex. J. Rations, Ra-

[1] *Vide* also FOOD CONTROL: GENERAL, § G, 1, *supra*, pp. 177–86, and AGRICULTURE: GENERAL, § III, B, 1, *supra*, pp. 135–64.

tioning and Food Control. (*Vide supra*, p. 185.)

Chapter xiv (pp. 126–49), 'Meat', describes steps taken and difficulties in controlling supplies and rationing of meat. Discusses reasons for lack of success.

Weddell, W. & Co. 'The Corn and Meat Trades since the War. II. The imported Meat Trade,' in *Jl. Roy. Agric. Soc.*, 1916 (vol. 77), pp. 73–8.

Discusses statistics of supplies, course of prices, effect of Government control (briefly).

℄ *Trade Journals :*

Fish Trades Gazette and Poultry, Game and Rabbit Trades Chronicle. (*Vide supra*, pp. 177–8.)

Contains some information as to effect of war conditions and Government regulations on poultry, game and rabbit trades. Early numbers contain statistics of prices at Central Market, London.

Meat Trades Journal and Cattle Salesman's Gazette. Weekly. 3*d.*

Contains statistics of daily prices of meat at Smithfield and Birkenhead, reports of markets, reports of meetings of Trade Associations. Gives fair amount of information as to working of Government regulations and control (action of local Food Control Committees, prosecutions, attitude of trade, &c.).

5. MILK [1]

℄ *Official Publications :*

Board of Agriculture. Milk, Production and Distribution of, Committee on. 1st and 2nd Interim Reports. 1917–18, Cd. 8608, 8886, vol. 16. 6 pp. and charts, 8 pp. 3rd Interim Report. 1919, Cmd. 315. 30 pp. Final Report. 1919, Cmd. 483. 89 pp.

Int. Reports discuss various questions connected with the supply and distribution of milk, price-fixing, &c. First report contains charts showing rise in prices of milk, feeding stuffs, &c., 1915–17 compared with July 1914. Final report deals mainly with measures to be taken for development of milk industry in future; gives figures of milk production, pre-war and during war, and of consumption in Jan. 1918; Appendix contains reports of various sub-committees, *re* improvement of breeds, handling of milk, labour in dairying, use of milking machines, &c., &c.

—— *Ibid.* Report to Food Controller. 1918, Cd. 9095, vol. 12. 5 pp.

Contains report of Sub-Committee appointed to determine steps necessary for control of collection and wholesale distribution. Enumerates difficulties experienced under existing system and draws up scheme for control of wholesale distribution.

—— *Jl. Bd. Agric.*, July 1916 (vol. 23), pp. 358–60. 'The Price of Milk.'

Discusses how far rise in price is justified. Gives average contract prices at London, Birmingham, and Manchester, 1913–16.

Board of Agriculture, &c., and Ministry of Food. Milk, Cost of Production of, Interim Report of Agricultural Costings Committee on. 1920, Cmd. 1028. 15 pp.

Gives figures as to cost of production and yield of milk in different districts in Great Britain in winter of 1919–20.

Board of Trade. Flour and Bread, manufacture of, and price of Milk, Orders *re*. 1916, Cd. 8400, vol. 24. 4 pp.

Contains Order fixing price of milk.

—— Profiteering Acts. Milk,

[1] *Vide* also under FOOD CONTROL: GENERAL, § G, 1, *supra*, pp. 177–86, and AGRICULTURE, § III, B, *supra*, pp. 135–70.

Report on, by a Sub-Committee of Standing Committee on Trusts. 1920, Cmd. 1102. 8 pp.

Discusses formation of combines in milk trade (before and during war) and whether unreasonable prices have been charged since decontrol, margins allowed for distribution under Government control, profits of United Dairies, Ltd., and economies effected by this combine, &c.

Committees. Milk Production, Prices fixed by Ministry of Food for, Select Committee of House of Lords on. Report with proceedings of Committee and Minutes of Evidence. 1919, No. 161, H. L. vi + 55 pp.

Committee discuss and report against differentiation in price in South Wales counties. Evidence deals with complaints made as to differential rate, effect on production of milk, &c.; includes official evidence as to reasons for fixing lower price, difficulties of differentiation, reasons for appointment of Travelling Commission, methods of trading of Ministry of Food (pooling of profits and losses), &c.

Ireland. Dept. of Agric. and Technical Instruction. Dairying, Decline of, in Ireland, Report of Departmental Committee on. 1920, Cmd. 808. 31 pp.

Discusses extent of decline and its causes (labour difficulties, disparity in prices during war for beef and dairy produce, shortage of feeding stuffs, &c.), the question of milk supply and methods of distribution in towns, and question of education and research (existing facilities and requirements).

Ministry of Food. Milk, Cost of Production of, Interim Report of Agricultural Costings Committee on. *Vide* under BOARD OF AGRICULTURE, etc., and MINISTRY OF FOOD, *supra*.

—— Milk, Cost of Production of, Travelling Commission of Inquiry into. Interim Report as to establishment of differential zones and estimated cost of production of milk in summer of 1919. 1919, Cmd. 205. 4 pp. Final Report. 1919, Cmd. 233. 14 pp.

Interim report describes steps taken to calculate cost of production in different areas, recommends prices to be fixed for summer months, differential rate, Government control of wholesale milk trade. Final report recapitulates main contents of interim report; tabulates figures with regard to estimated cost of production, winter 1918–19; discusses briefly question of labour, employment of women, milking machines, &c.

—— Milk Supply (Travelling Commission). Evidence and Recommendations of the Travelling Commission upon which Food Controller based his Order that in Somerset, Dorset, Devon, and Cornwall, milk producers receive 2*d*. a gallon less for their milk than in other counties. 1919, No. 68, H. L. 3 pp.

Gives somewhat more fully than in Cmd. 205 (*supra*) the grounds on which Travelling Commission based recommendation for differential rate.

¶ *Books and Periodicals:*

Bacharach, A. L. *Vide* under LABOUR RESEARCH DEPT., *infra*.

Central and Associated Chambers of Agriculture, Journal of. (*Vide supra*, p. 150.)

Contains (Nov. and Dec. 1916, N.S., vol. 5, pp. 141–3, 157–62; Jan. and Dec. 1917, vol. 6, pp. 5–6, 183–6; Jan. and July 1918, vol. 7, pp. 4–5, 109 *et seq.*) discussions *re* control of milk, reports of Dairy Products Committee, account of deputation from Central Chamber on Milk and Meat Orders, especially *re* action of Local Food Control Committees, &c., and, *passim*, resolutions passed by local agricultural societies *re* milk prices.

Drysdale, John. The Milk Trade and its Control,' in *Scottish Farmer Album* for 1918, pp. 144–8.

Criticizes Price of Milk Orders as unjust to farmers.

Gordon, Lionel Smith-. 'The Irish Milk Supply,' in *Better Business*, Nov. 1919 (vol. 5), pp. 11–36.

Discusses present condition in Ireland as regards quality, price, and quantity of milk supply and makes recommendations as to measures to be taken for organization of supply, &c. Discusses causes of shortage (e.g. compulsory tillage, competition of condensed milk manufactured under Government contracts). Criticizes control of price of condensed milk as useless owing to absence of standard as to quality.

Labour Party. Labour and the Milk Supply. (?) 1920. 20 pp.

Discusses causes of failure of present supply and position during the war (high prices, protests of Consumers' Council and action of Ministry of Food), and outlines scheme for solution of the problem.

Labour Research Department. The Milk Trust and the Community. By R. W. Postgate and A. L. Bacharach. Labour Research Dept., Mem. No. 8. Dec. 1918. 8 pp.

Gives an account of the growth of the Milk Trust, opposition to it, its relations with Ministry of Food, proposals of Committee on Production and Distribution of Milk (Cd. 9095) and action since taken by Ministry.

Mackintosh, James. 'Dairy Farming in relation to the Nation's Food Supply,' in *Jl. Farmers' Club*, Feb. 1917, pp. 25–43 (with discussion).

Discusses position of dairy farming before war, effect of war on home production, &c. Criticizes Milk Prices Order.

Philip, Alex. J. Rations, Rationing and Food Control. (*Vide supra*, p. 185.)

Chap. xiv (pp. 150–4) deals generally with difficulties in control of milk.

Postgate, R. W., and Bacharach, A. L. The Milk Trust. *Vide* under Labour Research Dept., *supra*.

Wallace, Robert. Food Control Mismanagement: The Tragedy of Milk Production. Oliver & Boyd, Edinburgh. 1919. 40 pp.

Criticism of Government milk policy. Shows danger of position owing to slaughter of cows.

6. OILS AND FATS

¶ *Official Publications:*

Board of Trade. Profiteering Acts. Oils, Fats and Margarine Trades, Reports on, by a Sub-Committee of Standing Committee on Trusts. 1920, Cmd. 982. 6 pp.

Describes Government control of oil-seeds, oils and fats during war, position of the trade as regards profits since decontrol, possibility of trade combination.

Colonial Office. Edible and Oil-producing Nuts and Seeds, Committee on. Report and Minutes of Evidence and Index. 1916, Cd. 8247, 8248, vol. 4. 47 pp., 233 pp.

Deals almost entirely with palm-kernels. Surveys position before war (exports from West Africa, description of processes and products, domination of trade by Germany) and conditions during war (development of crushing industry in England, shipping facilities afforded, progress made in disposal of palm oil for margarine and palm-kernel cake to farmers). Makes recommendations for Government assistance to the industry.

India Office. Control of Oleaginous Produce, E. India Correspondence regarding proposed scheme for. 1920, Cmd. 569. 1 p.

Contains proposal by Ministry of Food for arrangements for prohibiting export of copra and coco-nut oil from India except to British Empire, and reply of Viceroy.

Ministry of Food. *National Food Jl.* (*Vide supra*, p. 182.)

Contains, *passim*, information *re* control of oils and fats. *Vide* especially

articles on ' Oils and Fats ' (Oct. 10, 1917 (vol. 1), pp. 39–40 ; Feb. 27, 1918 (vol. 1), pp. 298–300 ; Sep. 11, 1918 (vol. 2), p. 7) ; ' Conservation of Fats : Economical Methods and the Abolition of Waste ' (Mar. 13, 1918, pp. 327–8) ; ' Control of the Soap Industry ' (July 24, 1918, p. 601).

¶ *Books and Periodicals :*

Allan, John. ' Oils, Fats, and Waxes,' in *Reports of the Progress of Applied Chemistry*, issued by Soc. of Chem. Industry, 1920 (vol. 5), pp. 291–308.

Describes researches and progress made in production and utilization of oils, &c., during the year. Mainly technical. *Vide* also articles by Bolton, E. R., and Revis, Cecil, and by Warburton, G. H., *infra.*

Bolton, E. R., and **Revis, Cecil.** ' Oils, Fats and Waxes,' in *Reports of the Progress of Applied Chemistry*, 1917 (vol. 2), pp. 305–21, and 1918 (vol. 3), pp. 261–85.

Similar to article by Allan, John, *vide supra. Vide* also Warburton, G. H., *infra.*

Imperial Institute. Oil Seeds and Feeding Cakes. With preface by W. R. Dunstan. Imperial Institute Monographs. John Murray. 1915. xxv + 112 pp.

Discusses position before war with regard to production of the various oil seeds and their products and their consumption in U. K., results of experiments in feeding cattle with palm kernel cake, prices and feeding values of the various seeds and products, future prospects, &c.

Maitland, Sir Arthur D. Steel-. ' Oils and Fats in the British Empire.' *Vide* Newton, Arthur P., *infra.*

Newton, Arthur P. (Editor). The Staple Trades of the Empire. J. M. Dent & Sons. 1918. 184 pp.

Pp. 9–31, ' Oils and Fats in the British Empire,' by Sir Arthur D. Steel-Maitland. A lecture delivered at London School of Economics in spring of 1917. Deals with oils and fats other than mineral oils. Describes their increased importance since war, their uses, consumption in different countries, demand and regulation of supplies, future prospects, &c.

Pearson, J. W. ' The Seed Crushing Industry,' in *Jl. Roy. Soc. Arts*, Dec. 12, 1919 (vol. 68), pp. 50–62 (with discussion).

Gives a description of the industry, materials used, processes, products (oil and seed cake), &c. Refers to changes during war, e. g. number of firms in industry at outbreak of war, increased production of margarine, change in relative importance of the products, oil and seed cake.

Revis, Cecil. *Vide* Bolton, E. R. and Revis, Cecil, *supra.*

Warburton, G. H. ' Oils, Fats, and Waxes,' in *Reports of the Progress of Applied Chemistry*, 1916 (vol. 1), pp. 165–79 ; 1919 (vol. 4), pp. 281–99.

Similar to articles by Allan, John, and by Bolton, E. R., and Revis, Cecil, *vide supra.*

Watson, Sir Wm. Geo. ' The Manufacture of Margarine in U.K.,' in *Jl. Roy. Soc. Arts*, Feb. 8, 1918 (vol. 66), pp. 212–20 (with discussion).

Writer is chairman of Maypole Dairy Company. Describes processes and progress of the industry since war, defends Maypole Company against criticisms made with regard to distribution and queues, gives account of restrictions imposed by Local Food Committees *re* sale.

¶ *Trade Journals :*

Grocer and Oil Trades Review. (*Vide supra*, p. 186.)

Monthly Oil Trade supplement contains London and Liverpool trade reports, with prices and import figures (linseed, olive, coco-nut oil, &c.). Lists of wholesale prices current. Yearly review in January.

Oil and Colour Trades Journal. (*Vide infra*, p. 330.)

Gives market reports and prices of oils, oil seeds, fats, isinglass, &c.

7. SUGAR

¶ *Official Publications :*

Commissions, Royal. Sugar Supply, Royal Commission on. Accounts for period Aug. 1914 to Mar. 31, 1918. 1919, Cmd. 447. 1 p.

Gives trading accounts, profit and loss account and balance sheet.

—— *Ibid.* Distribution of Sugar, July to Dec., 1916, Memorandum as to. 1916, Cd. 8395, vol. 24. 1 p.

Deals with sources of supply of sugar (1915 and 1916) and methods that are being adopted for distribution.

—— *Ibid.* 1st (Int.) Report with statement showing operations of the Commission from date of appointment to beginning of Dec. 1916. 1917–18, Cd. 8728, vol. 18. 8 pp.

Describes work of the Commission, e.g. methods of purchase, prices paid, cost of conveyance, methods of sale and control of distribution, limitation of profits, control of retail prices, financial position. Tables of amounts of sugar purchased 1914–15 and 1916, and variations in prices and in duty since Aug. 1914.

Committees. Ministry of Labour, &c., Staffing and Methods of work of, Reports of Committees on. 1920, Cmd. 1069. (*Vide supra*, p. 77.)

Discusses (pp. 34–5) organization, methods of work and staffing of Sugar Commission.

—— National Expenditure, Select Committee on. Public Accounts, Committee of. (*Vide supra*, pp. 87–9.)

The Reports of these Committees contain, *passim*, accounts of work and expenditure of Sugar Commission.

Treasury. Sugar and Meat, purchase of, abroad, on behalf of H.M. Government, Treasury Minute, July 30, 1916, making arrangements for financing of. 1916, Cd. 8326, vol. 24. 1 p.

—— Sugar purchases abroad, further Treasury Minutes relative to financing of.—(Nov. 1, 1916) 1916, Cd. 8407, vol. 24.—(May 10 and June 7, 1917) 1917–18, Cd. 8645, vol. 29.—(Oct. 27, 1917) 1917–18, Cd. 8806, vol. 29.—(Jan. 1, 1919) 1919, Cmd. 38. 1 p. each.

—— Vote of Credit, Appropriation Accounts. (*Vide supra*, p. 91.)

Contain, *passim*, accounts of work and expenditure of Sugar Commission.

—— Vote of Credit, Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Contains (pp. 89–90) trading and profit and loss accounts of Sugar Commission from Aug. 1914 to Mar. 31, 1919, and balance sheet.

¶ *Books and Periodicals :*

Davson, Edward R. 'Sugar and the War,' in *Jl. Roy. Soc. Arts*, Feb. 19, 1915 (vol. 63), pp. 262–71 (with discussion).

Describes position before war and (briefly) steps taken by Government, discusses possibility of increasing production of sugar within the Empire, &c.

Edinburgh Review, Ap. 1915 (vol. 221), pp. 422–37. 'Emergency Measures.' (Editorial Article.)

Pp. 423–5. Criticizes Government's action in buying up sugar supplies.

Heriot, J. H. P. 'The Sugar Industry after the War,' in *Proc. Roy. Phil. Soc. Glasgow*, 1917–18 (vol. 49), pp. 31–44.

Discusses post-war prospects of the industry. Gives brief sketch of pre-war history and position during war.

Martineau, George C. B. A Short History of Sugar, 1856–1916: A Warning. British Empire Producers' Organization. 1917. 85 pp.

Mainly pre-war history and advocacy of encouragement of sugar production in U. K. and Empire. Chap. IV, 'Sugar during the War,' contains brief account and criticism of Government action *re* purchases and prohibition of importation. Appendix gives brief account of formation of British Empire Producers' Organization in 1915 and work of the Sugar Section.

Newton, Arthur P. (Editor). The Staple Trades of the Empire. J. M. Dent & Sons. 1918. 184 pp.

Pp. 32–81, 'The Sugar Supply of the Empire, its Production and Distribution,' by C. Sandbach Parker. A lecture delivered in 1917. Gives historical account of the industry, describes conditions during war (brief account of Government purchases from producers' point of view, development of production in Empire and elsewhere), and discusses future prospects.

Parker, C. Sandbach. *Vide* under NEWTON, A. P., *supra*.

Sellers, Edith. 'On the Manufacturing of Grievances.'

Vide infra, 314.

Thorpe, Sir T. E. 'The Sugar Industry after the War,' in *Nature*, July 4, 1918 (vol. 101) pp. 344–6.

Reviews pre-war position and discusses prospects of production within Empire.

West India Committee. The British Sugar Industry: A Memorandum regarding the Possibilities of its Development. 1916. 52 pp.

Contains memorandum presented to Prime Minister urging development of sugar industry in Empire and replies received by W. I. Committee from tropical countries as to possibilities of development.

¶ *Trade Journals:*

Economist. Weekly.

Frequent articles on sugar supply.

International Sugar Journal. Monthly. 1*s.* 9*d.*

Contains technical articles, information as to conditions of sugar industry abroad, conditions of sugar beet industry in Great Britain, inter-allied purchases of sugar, market reports discussions of Government action (especially *re* purchases of sugar in early days of war). Statistics of sugar crops of the world, imports, exports and consumption in U. K., &c.

Sugar Users' Journal. No. 35 (Nov. 1914) and No. 36 (Jan. 22, 1915). (Discontd. after No. 36.)

Contain criticism of Government purchases of sugar and prohibition of imports and (in No. 36) report of meeting of protest of Confectionery and Preserved Food Manufacturers' Federation.

H. FORESTRY

Vide under TIMBER, § III, J, 11, *infra*, pp. 293–302

I. LIQUOR TRADE

¶ *Acts of Parliament:*

Defence of the Realm (Amendment) (No. 3) Act, 1915. 5 & 6 Geo. V. c. 42. 2 pp.

Provides for State control of liquor trade in certain areas.

Immature Spirits (Restriction) Act, 1915. 5 & 6 Geo. V. c. 46. 2 pp.

Intoxicating Liquor (Temporary Restriction) Act, 1914. 4 & 5 Geo. V. c. 77. 2 pp.

Output of Beer (Restriction) Act, 1916. 6 & 7 Geo. V. c. 26. 4 pp.

¶ *Official Publications:*

Law Reports. Licensing Law Reports: A complete yearly record of all judical decisions affecting the Brewing and Licensing Trades, with Notes. Published annually. Butterworth & Co., and *Brewing Trade Review.*

Manual of Emergency Legislation to Sep. 1914 and Suppts. Nos. 2, 3, 4. Defence of the Realm Regulations, July 31, 1915, and subsequent issues. (*Vide supra*, pp. 83–4.)

Contain regulations, &c., as to supply of liquor to H.M. Forces, closing of premises within proclaimed areas, &c. Suppt. No. 4 contains Orders made by Central Control Board.

Board of Customs and Excise. Annual Reports for 1914–15, &c. (*Vide infra*, p. 571.)

Contain statistics relating to spirits, beer and wine (receipts from duties, quantities retained for home consumption, number of distilleries, number of intoxicating liquor licences issued, &c.).

Board of Trade. *Bd. of Trade Jl.*, Oct. 10, 1918 (vol. 101), pp. 454–7. 'Explosives Supplies: Organization by Ministry of Munitions.'

Describes action taken with regard to production of alcohol for industrial purposes and explosives, control of distilleries, &c.

Central Control Board (Liquor Traffic). Alcohol: its Action on the Human Organism. H.M.S.O. 1918. 133 + x pp.

Is report of Advisory Committee appointed by Central Control Board. Reviews existing state of scientific knowledge with regard to action of alcohol on human organism. Statistics of consumption of alcoholic liquors, death-rates from alcoholism, &c. (partly from unpublished sources).

—— Direct Control Area, Carlisle and District. General Manager's Report for 1918. 1919, Cmd. 137. 21 pp. *Ibid.* for 1919. 1920, Cmd. 666. 12 pp.

Describe, from commencement, operations of the Board in Carlisle district, financial aspects, effects, &c. Statements of assets and liabilities at March 31, 1918 and 1919 respectively, and profit and loss accounts. Two previous reports not published but matter discussed in 3rd and 4th reports of Central Control Board.

—— Direct Control Districts, Gretna-without-the-Township, Invergordon and Cromarty, Statement of Assets and Liabilities as at Mar. 31, 1917, made by General Managers of. 1917–18, Cd. 8635, vol. 26. 3 pp.

—— Direct Control of Licensed Premises, Acquisition and. Statements of Assets and Liabilities. —(Mar. 31, 1918) 1918, Cd. 9187. 4 pp.—(Mar. 31, 1919) 1919, Cmd. 318. 4 pp.—(Mar. 31, 1920) 1920, Cmd. 1018. 4 pp.

—— Drunkenness, convictions for, in scheduled areas of Great Britain, Abstract of Returns of, with other statistics bearing on alcoholism. H.M.S.O. 1917. 31 pp.

—— Memorandum submitted to Government in Dec. 1916. 1917–18, Cd. 8613, vol. 26. 4 pp.

Discusses briefly effect of Orders made and future policy.

—— Reports of the Board.—(1st Report) 1914–16, Cd. 8117, vol. 25. 6 pp.—(2nd) 1916, Cd. 8243, vol. 12. 36 pp.—(3rd) 1917–18, Cd. 8558, vol. 15. 25 pp.—(4th) 1918, Cd. 9055, vol. 11. 27 pp.

Contain accounts of the powers, duties and work of the Board, Orders issued, with tables of the areas to which the Orders applied, provision of facilities for meals at public houses and establishment of industrial canteens, acquisition of licensed premises, 'direct control' by

the Board, effect of the Board's action, statistics of drunkenness, reports on drinking among women (2nd and 3rd Reports), &c.

Commission, Royal. Industrial Unrest, Reports of Commission of Enquiry into. (*Vide infra*, p. 425.)

Contain information as to attitude of working classes towards restrictions on output and sale of intoxicating liquor.

Committees. (1) State Purchase of Licensed Liquor Trade, proposals for, Report of Advisory Committee (England and Wales) on. 1916, Cd. 8283, vol. 12. 6 pp. (2) *Ibid.*, Report of Advisory Committee (Scotland) on. 1916, Cd. 8319, vol. 12. 3 pp.

(1) Deals with financial arrangements to be made if Government should purchase breweries and control retail trade. (2) Describes main points of difference in conditions of the trade in Scotland and England. Discusses methods to be adopted if State decides to purchase.

—— (1) State Purchase and Control of Liquor Trade, Appointment of Committees to consider financial aspects of. 1917–18, Cd. 8619, vol. 26. 2 pp. (2) *Ibid.*, Reports of English, Scotch and Irish Committees on. 1918, Cd. 9042, vol. 11. 82 pp.

(1) Gives terms of reference and membership of Committees for England and Wales, Scotland and Ireland. (2) Three separate reports and general introduction comparing them. Evidence not published. Discuss interests to be acquired, administrative machinery needed, methods of purchase and cost. Show differences in law and custom and in trade organization in the three countries.

Home Office. Board of Control. Annual Report for 1919. 1920, No. 193. (*Vide supra*, p. 17.)

Gives statistics of admissions to asylums, with number of cases in which alcohol (toxic) was assigned either as principal or contributory factor, for 1915–19, comparing with 1909–13, and suggests that decrease in percentage of cases was due to Government control of alcohol.

—— Constabulary, Report of H.M. Inspector of, for 1914–15. 1916, No. 35, vol. 14. 8 pp.

Contains (p. 5) warning as to use of statistics of prosecutions as a measure of the extent of drunkenness.

—— Drunkenness, Return of convictions for, in England and Wales during 1915–18. 1919, No. 57. 10 pp.

Contains statistics of convictions for drunkenness annually and for six-monthly periods, 1915–18, in districts wholly within, partly within, and not within, the sphere of Central Control Board's Orders.

—— Intoxicating Liquor (Temporary Restriction) Act, 1914, Return as to Orders made by Licensing Justices up to Dec. 31, 1914, under. 1914–16, No. 155, vol. 54. 32 pp.

Gives details of Orders made in each petty sessional division and borough.

—— Judicial Statistics, England and Wales, 1914, &c. Pt. I. Criminal Statistics. (*Vide supra*, p. 68.)

Contain statistics as to drunkenness and offences under liquor laws. Statistics for 1917 contains table for 1915–17 of number of proceedings for offences against Central Control Board's Orders and Intoxicating Liquor (Temporary Restriction) Act, 1914.

—— Licensing Statistics. — (Statistics for 1914) 1914–16, Cd. 7981, vol. 54. 140 pp. — (*Ibid.*, 1915) 1916, Cd. 8340, vol. 22. 134 pp. — (*Ibid.*, 1916) 1917–18, Cd. 8769, vol. 26. 126 pp.—(*Ibid.*, 1917) 1918, Cd. 9222, vol. 24. 127 pp.—(*Ibid.*, 1918) 1919, Cmd. 352. 127 pp.—(*Ibid.*, 1919) 1920, Cmd. 817. 132 pp.

Refer briefly to war legislation affecting liquor and discuss statistics of number of licensed premises, convictions for drunkenness, &c. Statistics given in detail for various districts :—number of on-licences

Home Office (*cont.*)

and convictions for drunkenness, number of licenced premises, compensation proceedings, licences not renewed and grounds therefor, new licences granted, offences of licensed persons against liquor laws, convictions for drunkenness. Report for 1915 gives monthly statistics of convictions for drunkenness in areas affected by Orders of Central Control Board and in areas not affected.

—— Police of the Metropolis, Annual Reports of Commissioner of. (*Vide supra*, p. 69.)

Contain statistics of numbers apprehended for drunkenness and convictions of keepers of public houses for a series of years; also (in Report for 1914) number of licensed premises. Reports for 1916 and 1917 contain brief reference to effect of Central Control Board's Orders in diminishing drunkenness.

—— Prison Commissioners, Annual Reports of. (*Vide supra*, p. 69.)

Contain short discussions on effect of war conditions and liquor sale restrictions on drunkenness.

Ireland. Inebriates Acts, Inspector for Ireland under. 11th and 13th Reports, for 1914 and 1916. — 1914–16, Cd. 7888, vol. 24. 9 pp. — 1917–18, Cd. 8602, vol. 15. 7 pp.

Give numbers admitted to certified reformatories, &c. (12th Report not published. Figures for 1915 given in 13th Report.)

—— Judicial Statistics, Ireland, 1914, &c. (*Vide supra*, p. 70.)

Pt. I, Criminal Statistics, contain statistics of drunkenness and offences by licensed persons against liquor laws. Pt. II, Civil Statistics, contain statistics as to spirit licences (number of applications, number granted, &c.).

—— Police, Dublin Metropolitan, Statistical Tables of, for 1914, &c. (*Vide supra*, p. 70.)

Contain statistics as to number of offences against liquor laws, number of licensed premises and number of applications for licences opposed by police, in Dublin.

National Health Insurance Commission. Medical Research Committee. Special Report Series. H.M.S.O. No. 31. Alcohol: its Absorption into and Disappearance from the Blood under different conditions. 1919. 48 pp.

—— *Ibid.* No. 34. Report on the Influence of Alcohol on Manual Work and Neuro-muscular Co-ordination. 1919. 65 pp.

—— *Ibid.* No. 56. The Effects of Alcohol and some other Drugs during Normal and Fatigued Conditions. 1920. 34 pp.

These three reports contain and describe the results of extended investigations and tests undertaken by request of Central Control Board, and present in comprehensive form scientific data for the study of the effects of alcohol.

Registrar-General. Annual Reports of Births, Deaths and Marriages in England and Wales. (*Vide supra*, p. 1.)

Report for 1916, pp. xl–xliii, lxviii–lxx; Report for 1917, pp. lxxix, lxxxii, lxxxiii; Report for 1918, pp. lxxviii–ix, lxxxiii–iv, lxxxviii–ix; Report for 1919, pp. lxxxv–vi, &c. Contain discussion as to possible effect of liquor restrictions in reducing mortality from alcoholism and (in Report for 1916) infant mortality from suffocation.

Scotland. Constabulary, Annual Reports of H.M. Inspector of, for Scotland. (*Vide supra*, p. 71.)

Contain statistics of apprehensions for drunkenness, also (in Report for 1914) number of licensed premises.

—— Judicial Statistics of Scotland, Annual Reports on. (*Vide supra*, p. 72.)

Contain statistics as to number of offences against liquor laws, with brief comments; also statistics of number of applications for certificates for sale of liquor and number of licensed premises.

Treasury. Bad Time kept in Shipbuilding, Munitions and Transport Areas, Report and Statistics of. 1914–16, No. 220, vol. 55. 31 pp.

Discusses amount and causes of lost time (alleged to be due to excessive drinking).

—— Vote of Credit, Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Contains (pp. 66–7,) profit and loss account from commencement and balance sheet at Mar. 31, 1919, of Central Control Board.

War Cabinet. Reports for 1917 and 1918. (*Vide supra*, p. 92.)

Contain sections on 'Liquor Control' (Report for 1917, pp. 195–8; Report for 1918, pp. 291–4), dealing with restrictive measures of Food Controller and work of Central Control Board.

¶ *Books and Periodicals :*

Batty, Robert B. 'State Purchase of the Liquor Trade,' in *Trans. Manchester Stat. Soc.*, 1916–17, pp. 35–56.

Refers to work of Central Control Board. Discusses advantages of State purchase.

Brewers' Almanack and Wine and Spirit Trade Annual, for 1915, &c. Review Press.

Useful publication. Gives diary for each year of all events affecting the trade; summary of Bills and Acts and text of their more important sections; capital invested and persons employed in the liquor industries; Magistrates' and Law Courts' decisions; Directory of brewers, distillers and wine merchants and of trade publications; statistics of National Drink Bill and other statistics, mainly from official sources.

Carnegie Endowment for International Peace. Government Control of the Liquor Business in Great Britain and U.S.A. *Vide* Carver, Thos. Nixon, *infra*.

Carter, Henry. 'Alcohol and Social Reconstruction,' in *Brit. Jl. Inebriety*, Oct. 1918 (vol. 16), pp. 29–42.

Describes work of Central Control Board. Gives tables of some heavily licensed districts showing number of licences and their ratio to population.

—— The Control of the Drink Trade in Britain : A Contribution to National Efficiency during the Great War. With a preface by Lord D'Abernon. Longmans, Green & Co. 2nd ed. 1919. xix + 343 pp.

Reviews conditions in early days of war, movements of public opinion regarding necessity for further regulation of alcohol, passing of Defence of the Realm (Amendment) (No. 3) Act, 1915, and establishment of Central Control Board. Describes administration of State control, restrictive and constructive work of the Board, industrial canteen movement, and State Purchase areas of Carlisle, Gretna and Cromarty Firth. Estimates influence of the Board in diminishing drunkenness and its attendant evils. Contains charts, diagrams, maps and illustrations, with appendices giving text of D.O.R.A. Regulations and Central Control Board's Orders and Memoranda; also a comprehensive index.

Carver, Thomas Nixon. Government Control of the Liquor Business in Great Britain and U.S.A. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War. Ed. by David Kinley. No. 13. Oxford University Press, New York. 1919. v + 192 pp.

Pt. I (pp. 17–135) deals with Great Britain. Discusses attitude of the public towards drink question during the war, with extracts from British newspapers. Describes work of Central Control Board and restriction of liquor production, and discusses results.

Chance, Fredk. W. 'Public House Reform at Carlisle,' in *N. C.*, Dec. 1920 (vol. 88), pp. 1072–82.

Describes Carlisle scheme and discusses its practical and financial results.

Chancellor, H. G. The War and Temperance Legislation. Pamphlets on Problems of National Reconstruction. *The Athenaeum.* 1917. 8 pp.

Describes effect of war on national temperance and improved conditions after establishment of Central Control Board.

—— 'State Purchase of the Liquor Trade,' in *C. R.*, July 1917 (vol. 112), pp. 48–53.

Argues against State purchase. Discusses results of Carlisle experiment.

—— 'Prohibition without Purchase or Confiscation,' in *C. R.*, July 1918 (vol. 114), pp. 18–23.

Outlines scheme for prohibition. Refers to plebiscites in favour of prohibition and opposition to State purchase.

Chapman, Cecil M. 'War and Criminality,' in *Soc. Rev.*, Autumn 1916 (vol. 9), pp. 79–87.

Contains criticism of Government measures in connexion with liquor control. Writer maintains that no decrease in drunkenness has been effected.

D'Abernon, Lord. 'Rival Theories of the Causes of Drunkenness,' in *Jl. Roy. Soc. Arts*, Nov. 29, 1918 (vol. 67), pp. 24–34.

Discusses effect of Central Control Board's restrictions on temperance among women. Quotes statistics of convictions of drunkenness, deaths from alcoholism, &c., also cases of delirium tremens treated in certain English Poor Law infirmaries from which records have been obtainable.

—— 'The Scientific Basis of Drink Control,' in *Brit. Jl. Inebriety*, Jan. 1920 (vol. 17), pp. 73–85.

Discusses physiological principles to be followed in framing a scientifically sound system of liquor control. Illustrates by diagrams the results of experiments conducted by Dr. Mellanby, &c.

—— Alcohol and National Finance. Monograph No. 6 of the True Temperance Association. 1918. 19 pp.

Discusses the regulative and fiscal problems of alcohol and national finance from point of view of present and future requirements.

Evens, G. Bramwell. The Truth about Direct Control in Carlisle as administered by the Central Control Board (Liquor Traffic). P. S. King & Son. 2nd ed. 1917. 32 pp.

An answer to Wilson Stuart's pamphlet (*vide infra*). Defends Central Control Board's experiment at Carlisle. Appendices contain local Press opinions favourable to the Board.

Freedom Association. Handbook for Speakers and Writers on the Drink Question. 4th ed. 1918. 252 pp.

Anti-prohibition and anti-State interference propaganda. Gives account of formation of Central Control Board, Orders of the Board, and effect of Orders.

Greenwood, Arthur. Public Ownership of the Liquor Trade. Leonard Parsons. 1920. 188 pp.

Sketches State's action with regard to 'the Trade' from seventeenth century to present day, with special reference to war period. Discusses economics and organization of the trade. States case for public ownership and criticism thereof. Discusses cost of State purchase. Appendix contains text of report of a visit of trade unionists to Carlisle to investigate the results of Central Control Board's experiment.

Holden, J. Stuart. *Vide* MEE, ARTHUR and HOLDEN, J. S., *infra.*

Jennings, H. J. 'Beer and the Revenue,' in *F. R.*, May 1915 (vol. 97), pp. 896–908.

Discusses and criticizes drink restrictions.

—— 'The New Drink Regulations,' in *F. R.*, Jan. 1916 (vol. 99), pp. 176–86.

Discusses restrictions imposed by Central Control Board in Nov. 1915. Enumerates criticisms brought against the Board and discusses whether measures adopted are justified by end in view.

Lancet. Weekly.

Contains, *passim*, discussions as to effect of Central Control Board's Orders on alcoholism.

Mee, Arthur, and **Holden, J. Stuart.** Defeat or Victory ? The Strength of Britain Book. With an Introduction by C. W. Saleeby. Morgan & Scott. 2nd ed. 1917. 119 pp.

Prohibition propaganda. Government adversely criticized for all its actions with regard to liquor traffic.

Political Quarterly, Mar., 1916 (No. 7), pp. 128–33. 'The Drink Problem.'

Relates Parliamentary events leading up to introduction of Defence of the Realm (No. 3) Bill for taking over licensed houses in munition areas. Describes proposed duties on beer, wines and spirits.

—— Sep., 1916 (No. 8), pp. 142–6. 'Central Control Board (Liquor Traffic).'

A review of the work of the Central Control Board.

Round Table, Mar., 1917 (No. 26), pp. 358–63. 'Temperance Reform in Great Britain.'

Describes briefly measures taken for restriction of drink traffic and movement towards prohibition and nationalization.

Rowntree, Joseph, and **Sherwell, Arthur.** State Purchase of the Liquor Trade. Geo. Allen & Unwin. 1919. ii + 87 pp.

Advocates State purchase and control of liquor trade. Describes in detail work of Central Control Board in Carlisle district and its results.

Saleeby, C. W. 'Scientific Temperance,' in *C. R.*, Dec. 1918 (vol. 114), pp. 661–9.

Discusses toxicology of alcohol and compares and criticizes the various temperance programmes.

Samuelson, James. Drink and the War, or, Drink, Past, Present, and Possible Future, with some of its bearings on the War (An Essay). Philip, Son & Nephew, Liverpool. Day & Bath, Sidmouth. 1916. ii + 43 pp.

Pt. III describes setting up and early work of Central Control Board, &c.

Scharlieb, Mary. 'The Relation of Alcohol and Alcoholism to Maternity and Child Welfare,' in *Brit. Jl. Inebriety*, Jan. 1920 (vol. 17), pp. 91–139.

Reviews war measures to prevent alcoholism. Describes some effects of alcoholism noted during war, especially in relation to maternity and child welfare.

Shadwell, A. 'The Liquor Traffic in War,' in *N. C.*, Feb., 1917 (vol. 81), pp. 332–47.

Describes powers of Central Control Board and Orders made by it and discusses results.

Sherwell, Arthur. 'A Revolution in Public House Management; The Carlisle Experiment,' in *Progress*, Oct. 1916 (vol. 11), pp. 139–45.

Discusses Central Control Board's scheme for acquisition of public houses, describing essential reforms necessary under the scheme and drawing attention to existing difficulties.

—— and **Rowntree, J.** *Vide* under ROWNTREE, JOSEPH, *supra*.

Stuart, Wilson. The Carlisle and Annan Experiment in State Purchase and Liquor Nationalization by the Central Control Board (Liquor Traffic) 1916–17. Templar Printing Works, Birmingham. 2nd ed. 1917. 22 pp.

Adverse criticism of Central Control Board's experiment. Statements based on author's observations and a few quotations from local Press.

Turbervill, Beatrice Picton-.

'The Case for State Purchase and Control of the Liquor Traffic,' in *F. R.*, June 1920 (vol. 107), pp. 947–54, and Nov. 1920 (vol. 108), pp. 865–70.

Reviews growth of drink trade before war, situation during first years of war, activities of Central Control Board, Carlisle experiment. Deduces arguments in favour of State control.

Watson, James. 'The Scotch Whisky Trade,' in *Scottish Bankers' Magazine*, Ap. 1920 (vol. 12), pp. 62–5.

Discusses war increase in duty on whisky, trading restrictions and their effects, effect of Excess Profits Tax, &c. Describes present state of the industry (amalgamation and disappearance of firms).

Whittaker, Thomas P. 'The Drink Trade and State Purchase,' in *C. R.*, June 1915 (vol. 107), pp. 695–705.

Discusses proposal for Government purchase and control of drink trade.

—— 'The Work of the Central Control Board,' in *C. R.*, Mar., 1916 (vol. 109), pp. 273–87.

Discusses effect of Central Control Board's Orders as regards sobriety, comparing England and Scotland, and constructive work of the Board (industrial canteens, &c.).

Wilson, Geo. B. 'The Case for State Purchase and Control of the Liquor Traffic—a Reply,' in *F. R.*, Aug. 1920 (vol. 108), pp. 334–45.

Disagrees with a number of statements in the article by Beatrice Picton-Turbervill (*vide supra*).

℄ *Temperance and Trade Journals:*

(i) *Temperance.*

Alliance News and Temperance Reformer. Manchester. Monthly. 1*d.*

Organ of the United Kingdom Alliance. Temperance and prohibition propaganda. Discusses fully the work of the Central Control Board. Every October number consists of long Annual Report of Executive Committee of U. K. Alliance, reviewing temperance effort, Acts affecting liquor trade, &c., for past year. April and October numbers give half-yearly statistics of National Drink Bill, compiled by Mr. Wilson, Secretary of the Alliance.

Monthly Notes. Bi-monthly. 1*d.*

Organ of the Temperance Legislation League. Presents statements concerning temperance legislation and legislative proposals affecting Britain, British Dominions and foreign countries.

Pioneer. Monthly. 1½*d.*

Organ of the Wesleyan Methodist Church. Propagandist journal. Gives monthly résumé of temperance movements and legislative questions.

Scottish Reformer. Glasgow. Monthly.

Organ of the Scottish Permissive Bill Association. Reviews Scottish temperance movement and, in particular, developments of the Scottish Local Option campaign.

(ii) *Trade.*

Brewer and Wine Merchant and Brewers' Guardian. Monthly. 10*s.* p.a.

Largely technical (*re* processes, new trade inventions, &c.). Section devoted to Off-Licence and Wine and Spirit Trade.

Brewers' Gazette and Wine and Spirit Trades Chronicle. Fortnightly. 20*s.* p.a.

Notes on events concerning the trade. Articles on brewing science and practice, the market and brewery finance.

Brewers' Journal and Hop and Malt Trades Review. Monthly. 30*s.* p.a.

Notes on current events concerning the trade. Hop news. Parliamentary news. Company and Law intelligence. Each January number contains review of progress of the trade in past year.

Brewing Trade Review. Monthly. 40*s.* p.a.

Official Organ of the Brewers' Society.

Valuable leading articles and general notes. Scientific Notes, Law Reports, full Parliamentary Intelligence and texts of Bills and Acts affecting the trade. Market reports, containing statistics sent by private firms showing fluctuations in prices of hops, barley, malt, &c. A section devoted to Central Control Board.

Licensed Trade News. Birmingham. Weekly. 2*d.*

Official Organ of the District Committees of the National Trade Defence Association. Gives news from all over England about the brewing trade (largely police court news). Discusses any new taxation of liquor and Orders of Central Control Board. Strongly anti-prohibition. Protests against policy of Central Control Board and all State interference.

Morning Advertiser. Daily. 1*d.*

Inspired by the Incorporated Society of Licensed Victuallers. Contains general news with special reference to liquor trade. Anti-prohibition propaganda and protests against actions of Central Control Board.

National Guardian. Glasgow. Weekly. 2*d.*

Inspired by Scottish whisky trade. Gives licensed trade news from all over Scotland. Reports actions of Central Control Board. Contains trade directory of Scottish wine merchants and distillers. Reasonable and moderate in tone.

Wine and Spirit Trade Record. Monthly. £2 2*s.* p.a. Illustrated.

Articles on wines and on the wine industry in different parts of the world. Company reports and dividends. Discusses Acts affecting wine and spirit trade.

Wine Trade Review. Monthly. 30*s.* p.a.

Notes on wine and spirit trade in U.K. Parliamentary news. Proceedings of Companies. Law intelligence. List of current prices for wines and spirits. Each January number contains review of trade for previous year.

J. MANUFACTURES

1. CHEMICALS [1]

a. GENERAL

¶ *Official Publications:*

Manuals of Emergency Legislation. War Materials Supplies Manuals. (*Vide supra*, p. 84.)

Contain Orders, &c., made *re* Chemicals.

Board of Trade. Sulphuric Acid [2] and Fertilizer Trades, post-war position of, Report of Departmental Committee on. 1919, Cmd. 23. 15 pp.

Describes position before war and development during war, and makes recommendations as to post-war policy. Gives list of Government chemical factories.

—— *Bd. of Trade Jl.*, Sep. 9, 1918 (vol. 101), pp. 303–4. 'British Supplies of Potash.'

Describes steps taken by Potash Production Branch of Ministry of Munitions in production of potash from blast furnace dust, formation of British Potash Co., and control of potash salts.

—— *Ibid.*, Oct. 3, 1918 (vol. 101), pp. 425–6. 'The Supply of Acids [2] and Fertilizers.'

Describes work of Acids Supply Branch of Ministry of Munitions in controlling and developing supply of acids and fertilizers.

—— *Ibid.*, Oct. 10, 1918, pp. 454–7. 'Explosive [2] Supplies: Organization by Ministry of Munitions.'

[1] *Vide* also under AGRICULTURE, § III, B, 1, *supra* (pp. 135–64) as regards fertilizers; and under GAS MANUFACTURE, § J, 4 *infra* (pp. 255–60), as regards chemical by-products of gas.

[2] For further references on acids and explosives *vide* under ENGINEERING: MUNITIONS, § J, 3, a, *infra*, pp. 231–42.

Board of Trade (*cont.*)

Describes work of Explosives Supply Branch of Ministry of Munitions in controlling supplies of glycerine, alcohol, coal tar, &c.

—— *Ibid.*, Feb. 6, 1919 (vol. 102), pp. 165–6. 'Chemicals and Drugs: Analysis of Pre-war Imports.'

Analyses pre-war imports in more detail than in published returns.

—— *Ibid.*, Feb. 12, 1920 (vol. 104), pp. 217–19. 'Fine Chemicals and Drugs.'

Gives short account of progress made during war.

Government Chemist. Annual Reports on work of Government Laboratory. — (Report, 1915–16) 1916, Cd. 8394, vol. 9. 22 pp. — (Report, 1916–17) 1917–18, Cd. 8905, vol. 14. 19 pp. — (Report, 1917–18) 1918, Cd. 9205, vol. 9. 15 pp. — (Report, 1918–19) 1919, Cmd. 419. 16 pp. — (Report, 1919–20) 1920, Cmd. 881. 18 pp.

Give particulars of examination of samples for other Government departments, including food for troops, imports and exports (for War Trade Department), &c.

Local Government Board (later **Ministry of Health**). Alkali, &c., works, Annual Reports on, by Chief Inspector. — (Report, 1914) 1914–16, No. 253, vol. 7. 126 pp. — Reports for 1915 to 1919. H.M.S.O.

Give statistics of number of registered works and processes carried on, and accounts of the work of inspectors. Describe developments of the chemical industry, extension of plant, changes in manufacture, increased tendency to co-operation, &c. Statistics of quantity of ammonia recovered as by-product, tar distilled and pitch produced, &c.

Ministry of Munitions. Nitrate of Soda, Memorandum of Agreement between Chilean Government and Nitrate of Soda Executive for sale and purchase of. 1918, Cd. 9149, vol. 26. 3 pp.

—— The Nitrogen Problem and the work of the Nitrogen Products Committee. H.M.S.O. 1917. 12 pp.

Describes formation of Nitrogen Products Committee, researches carried out, substance of recommendations made in Interim Report, Feb. 1917, for increase of output of ammonia, &c., and action taken by Government on this report.

—— Nitrogen Products Committee. Final Report. 1919, Cmd. 482. vi + 357 pp.

Contains long description of the industry, pre-war position and war developments, researches undertaken by the Committee, &c. Contains much information with regard to nitrogenous manures. Recommends Government assistance. Appendix I contains abstract of Interim Report and describes action taken on this Report.

—— Trading Accounts. 1920, Cmd. 788. (*Vide supra*, p. 89.)

Contains (pp. 127–8) trading account, 1918–19, and balance sheet, with regard to Government operations in chemicals and drugs.

Ministry of Reconstruction. Agricultural Policy Sub-Committee. Summaries of Evidence. 1918, Cd. 9080, vol. 5. (*Vide supra*, p. 146.)

Evidence of K. M. Chance (pp. 99–100), gives information as to experiments being carried out for recovery of potash from blast furnace gases.

—— Chemical Trade, procedure which should be adopted for dealing with, Report of Committee on. 1917–18, Cd. 8882, vol. 18. 2 pp.

Makes recommendations *re* post-war policy. Gives some information as to Associations of Manufacturers.

Scotland. Board of Agriculture for Scotland. *Scottish Jl. Agric.*, Oct. 1918 (vol. 1), pp. 468–71. 'The British Potash Industry.'

Describes early attempts to obtain potash, formation of British Potash Co., &c.

Treasury. British Cellulose Inquiry Committee, Report of. 1919, Cmd. 306. 17 pp.

An investigation into subject of contracts for cellulose acetate and relations of British Cellulose and Chemical Manufacturing Co. with Government.

— Vote of Credit, Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Contains (pp. 71, 75–6) trading accounts of Ministry of Munitions, with regard to production of fertilizers and acids, for period ending March 31, 1919.

¶ *Books and Periodicals :*

Berry, R. A., and **McArthur, D. N.** 'Recovery of Potash from Blast Furnace Gases,' in *Jl. West of Scot. Iron and Steel Inst.*, Oct. 1917 (vol. 25), pp. 9–36 (with discussion).

Gives technical account and analyses with respect to recovery of potash from certain iron-works in Scotland during war.

British Sulphate of Ammonia Federation. *Vide* SULPHATE OF AMMONIA ASSOCIATION, *infra*.

Chance, Kenneth M. 'The Commercial Aspects of the Recovery of Potash in the Manufacture of Pig-iron,' in *Iron and Coal Trades Review*, Jan. 1918 (vol. 96), pp. 58–9.

Refers to small percentage of potash recovered from blast furnaces by present processes, and methods for improved recovery. Describes formation of British Potash Co. and their plans for potash production.

—— 'Recovery of Potash in the Manufacture of Pig Iron,' in *Ministry of Munitions Jl.*, Aug. 1918 (vol. 2), pp. 249–52.

Describes formation of British Potash Co. and experiments in recovery of potash from blast furnaces.

Greenwood, H. C. Industrial Gases. Industrial Chemistry Series, ed. by Samuel Rideal. Baillière, Tindall & Cox. 1920. xviii + 371 pp.

Describes briefly development and general principles of industrial gas technology, showing influence of new inventions and industrial requirements, especially those created by the war. Deals with U.K. and other countries.

McArthur, D. N. *Vide* BERRY, R. A., and MCARTHUR, D. N., *supra*.

Manchester Guardian. *Supplement*, June 30, 1917. 'Science and Industry: The Organic Chemical Industry in England,' by Levinstein, Ltd. 15 pp.

Contains sections describing development of Ellesmere Port (Levinstein, Ltd.) during war, production of dyes and drugs, action taken by Government in stimulating research, &c.; also articles by Professors of Chemistry, urging need of closer co-operation between academic chemistry and industry, grants for research, &c.

Society of Chemical Industry. Annual Reports of the Progress of Applied Chemistry. Vol. 1, &c. 1916, &c. (*Vide supra*, p. 136).

Contain accounts of the researches and developments in chemical and allied industries. Mainly technical.

—— *Journal of the Society.* Twice monthly. Spottiswoode, Ballantyne & Co.

Largely technical, dealing with processes, patents, &c., in chemical and allied industries, but also contains notes and papers read before the Society giving information as to progress of the industry during war (effect of war conditions, Government action and control, development of research, &c.).

South Wales Institute of Engineers. *Proceedings*, July 23, 1915 (vol. 31), pp. 319–44.

Papers read at a Conference on Extension of British Trade. Contain (pp.

331–4, 362–71) some reference to position as regards sulphate of ammonia, inferiority of British product, temporary advantage given by war, position prior to war and future prospects.

Sulphate of Ammonia Association (now BRITISH SULPHATE OF AMMONIA FEDERATION). Annual Reports and Statements of Accounts for 1914–15 to 1919–20. (Reports for 1914–15 to 1916–17 typewritten). B.S.A.F., 30 Grosvenor Gardens.

Contain accounts of propaganda work of the Association, arrangements made with Government Departments for supply to farmers and prices fixed, experiments made, control of export, &c. Reports for 1918–19 and 1919–20 contain statistics (partly estimated) of production of sulphate of ammonia since 1913, amount exported and used in home agriculture, and amount of nitrate of soda so used.

Thorpe, Sir T. Edward. 'Sulphuric Acid and the War,' in *Nature*, Ap. 11, 1918 (vol. 101), pp. 107–8.

Describes development of manufacture of sulphuric acid during war and discusses future prospects of the industry. Discusses report of Departmental Committee (Cmd. 23, *supra*, p. 217).

Voelcker, John A. 'Fertilizers and their Supply in War Time,' in *Jl. Roy. Soc. Arts.*, Mar. 1917 (vol. 65), pp. 325–37 (with discussion).

Discusses farmers' difficulties with regard to fertilizers, want of co-operation between Government Departments, production of substitutes, &c.

¶ *Technical and Trade Journals:*

Chemical Engineering and the Works Chemist. Monthly. 1*s.* 6*d.*

The official organ of the Association of Chemical Technologists. Mainly technical, but contains some information, *passim*, as to development of chemical industry during war.

Chemical News and Journal of Physical Science. Ed. by Sir William Crookes. Weekly.

Almost entirely technical. April 7, 1916 (Vol. 113, p. 167), Feb. 23 and May 4, 1917 (Vol. 115, pp. 94–5, 214–15) contain correspondence of Ammonia Association with Fertilizers Committee and circular letters issued by Association *re* arrangement made with Government as to prices and distribution of sulphate of ammonia.

Chemical Trade Journal and Chemical Engineer. Weekly. 6*d.*

Contains considerable amount of information as to effect of war conditions on supplies of chemicals (including drugs) and progress of the industry. Weekly market reports from various towns, list of prices of chemicals at Manchester, notes on position as regards fertilizers, Parliamentary news, &c.

b. DRUGS[1]

¶ *Official Publications:*

Board of Trade. Profiteering Acts. Drugs and Medicinal Tablets, Findings of a Committee on prices, costs and profits of, with special reference to Aspirin. 1920, Cmd. 633. 4 pp.

Describes system of production and distribution of drugs and medicines, and organization and working of Proprietary Articles Trade Association. Gives some figures as to course of prices of aspirin during war.

—— *Ibid.* Quinine Sulphate, position of prices and supply of, Findings by Board of Trade on. 1919, Cmd. 449. 5 pp.

Gives an account of Government control of quinine during war, formation of British Quinine Corporation, and rise in price on cessation of control.

Committee. Commercial and

[1] *Vide* also under CHEMICALS: GENERAL, § J, 1, a, *supra*.

Industrial Policy, Committee on. Interim Report on certain Essential Industries. 1918, Cd. 9032. (*Vide supra*, p. 101.)

Contains (p. 10) discussion as to steps to be taken for development and assistance of the drug industry. Appx. (pp. 13–16) contains 'Memorandum on the supply of essential drugs', by National Health Insurance Commission, describing position as to supply of drugs and medicinal herbs during war and discussing steps to be taken for future development and protection.

National Health Insurance Commission. Drugs and other Medicinal Stores, Memorandum on special measures taken in relation to supply of, during the war. 1919, Cmd. 183. 13 pp.

Deals with restrictions on export, encouragement of home production, manufacture of drugs in scientific institutions, supply of home-grown medicinal herbs, obtaining of special supplies from abroad.

℄ *Books and Periodicals :*

Baker, H. B. 'British Supply of Drugs and Fine Chemicals,' in *Nature*, Ap. 15, 1915 (vol. 95), pp. 174–6.

Gives instances of successful manufacture of drugs since beginning of war and emphasises magnitude of the task.

Chemist and Druggist Diary for 1915, &c. *Chemist and Druggist.*

Contains lists of prohibited chemical exports and imports, enemy firms in liquidation, chemical companies formed since outbreak of war, epitome of D. O. R. A. regulations affecting drug trade, prices (in issues for 1918–20) of drugs, chemicals, oils, seeds, &c., at various dates.

Hocking, F. A. 'The War and our Supply of Drugs,' in *Jl. Roy. Soc. Arts.*, Mar. 2, 1917 (vol. 65), pp. 275–85 (with discussion).

Discusses sources of supply of drugs, popular exaggeration of dependence on Germany, difficulties arising out of war, effect on prices and progress made in production of drugs in Great Britain.

Keller, G. N. 'The Cultivation and Collection of Medicinal Plants in Ireland,' in *Jl. Dept. Agric. and Tech. Inst. Ireland*, Jan. 1918 (vol. 18), pp. 151–7.

Describes steps taken by United Irishwomen and commercial prospects.

Shenstone, J. C. 'Herb-growing in the British Empire: its past, present and future,' in *Jl. Roy. Soc. Arts*, May 4, 1917 (vol. 65), pp. 445–57 (with discussion).

Contains some account of what has been done during war to revive industry of medicinal herb growing.

c. DYES[1]

℄ *Act of Parliament :*

Dyestuffs (Import Regulation) Act, 1920. 10 & 11 Geo. V. c. 77. 2 pp.

℄ *Official Publications :*

Board of Trade. Dye Industry, Scheme for allocation and administration of funds provided by Parliament for development of, Memorandum on. 1918, Cd. 9194, vol. 22. 12 pp.

Describes objects of scheme, kind of financial assistance proposed and conditions, organization for administration of scheme.

[1] *Vide* also CHEMICALS: GENERAL, § J, 1, a, *supra*, pp. 217–24. For further articles reference may be made to the U.S., Library of Congress, 'List of References on Dyestuffs: Chemistry, Manufacture, Trade,' compiled under the direction of H. H. B. Meyer, Government Printing Office, Washington, 1919 (186 pp.). This includes some references on the position in Great Britain.

Board of Trade (*cont.*)

—— *Bd. of Trade Jl.*, Feb. 4, 1915 (vol. 88), pp. 334–5. 'National Dye Works: Modified Scheme adopted.'

Short article describing the dye scheme.

—— *Ibid.*, May 30 and June 6, 1918 (vol. 100), pp. 669–70, 698–9. 'Synthetic Dyes. I. Developing a Key Industry. II. The Provision of Supplies.'

I. Describes position at outbreak of war, Government action, financial assistance to British Dyes, Ltd., activities of private dye makers, &c. II. Describes measures taken to secure supplies, formation of Dyes Department, control of exports, &c.

—— *Ibid.*, Feb. 5, 1920 (vol. 104), pp. 177–80. 'Synthetic Dyes: A typical "Key" Industry.'

Describes position of dye industry on outbreak of war, and, briefly, steps taken by Government to encourage chemical research, &c., progress of the industry during war and hopeful position in 1920.

Committee. High Prices and Profits, Select Committee on. Special Report. 1919, No. 166. (*Vide supra*, p. 180.)

Evidence, Qs. 591–614, 703, deals with Government financial interests in British Dyestuffs Corporation, &c.

¶ *Books and Periodicals:*

Armstrong, H. E. 'British Dyestuffs,' in *Glasgow Herald, Supplement on Shipbuilding, Engineering and Commerce in* 1918, Dec. 28, 1918, p. 37.

Pessimistic forecast of future of the industry and severe criticism of Government interference during war and scheme to assist development of industry after war. Discusses progress made by individual companies and amalgamation of Levinstein Co. with British Dyes Ltd.

Barnett, E. De Barry. Coal Tar Dyes and Intermediates. Baillière, Tindall & Cox. 1919. xvi + 207 pp.

Technical, *re* processes. Conclusion (pp. 201–7) discusses future of dye industry in Great Britain and criticises Government proposals for assisting the industry (Cd. 9194).

British Science Guild. 12th Annual Report, July, 1918. B.S.G., 6 John St., Adelphi.

Pp. 1, 30–3, Report of a Committee on the Dye Industry. Discusses small progress made and future prospects.

Economist, Feb. 27, 1915 (vol. 80), pp. 424–5. 'The Government's Dye Scheme.' *Ibid.*, Mar. 13, 1915, p. 521. 'The Dye Prospectus.'

Severe criticisms of Government scheme and of prospectus of British Dyes, Ltd.

Findlay, Alexander. The Treasures of Coal Tar. Geo. Allen & Unwin. 1917. xiv + 137 pp.

Mainly technical, *re* processes. Mentions (p. 86) some new dyes manufactured in England during war.

Gardner, Walter M. 'The Manufacture of Dyestuffs in Britain,' and 'The Manufacture of Dyestuffs: The Government's Modified Scheme,' in *Nature*, Jan. 21 and Feb. 25, 1915 (vol. 94), pp. 555–7, 700–1. Reprinted in 'The British Coal Tar Industry' (*vide infra*).

Discusses Government scheme and its reception in the country.

—— (Editor). The British Coal Tar Industry: Its Origin, Development, and Decline. Williams & Norgate. 1915. ix + 437 pp.

A collection of papers by experts reprinted from various journals, dealing with history of the industry and problem since outbreak of war.

Morgan, Gilbert T. 'Colouring Matters and Dyes,' in *Reports of the Progress of Applied Chemistry*, issued by the Soc. of Chemical

Industry, 1916 (vol. 1), pp. 67–107; 1917 (vol. 2), pp. 84–125; 1918 (vol. 3), pp. 86–114.

Describes progress made in developing dye industry during war. Mainly technical. (*Vide* also ROWE, F. M., *infra*.)

Nature, June 15, 1916 (vol. 97), pp. 317–8. 'Position and Prospects of Chemical Industry.'

Discusses position of the dye industry, progress made during war, future prospects, &c.

—— Nov. 9, 1916 (vol. 98), pp. 190–1. 'Position and Promise of British Dyestuff Manufacture,' by A. R.

Discusses difficulties under which the industry is labouring and progress made.

—— Oct. 31, 1918 (vol. 102), pp. 168–9. 'Dye-stuffs and the Textile Industry.'

Discusses Chairman's speech at meeting of Calico Printers' Association, showing unsatisfactory position as regards supply of British dyes (limited number available and high prices).

Perkin, Wm. Henry. 'The Position of the Organic Chemical Industry,' in *Jl. of Chem. Soc., Transactions*, 1915, Pt. 1 (vol. 107), pp. 557–78 (Presidential Address). Reprinted in 'The British Coal Tar Industry', ed. by Walter M. Gardner (*vide supra*).

Discusses position as regards dye industry and criticises Government proposals.

Rowe, F. M. 'Colouring Matters and Dyes,' in *Reports of the Progress of Applied Chemistry*, issued by the Soc. of Chemical Industry, 1919 (vol. 4), pp. 84–113 and 1920 (vol. 5), pp. 91–124.

Mainly technical. Contain short accounts of state of British dye industry during transition period, describing extent of Government aid and recent enactments affecting the industry, importation of German dyes and its effects, and progress of individual firms. (*Vide* also MORGAN, GILBERT T., *supra*).

Whittaker, C. M. 'The British Coal Tar Colour Industry and its Difficulties in time of War,' in *Jl. Roy. Soc. Arts*, Dec. 8, 1916 (vol. 65), pp. 61–72 (with discussion).

Describes development of the industry before war, principal firms engaged in it at outbreak of war, misstatements made in discussions as to position of the industry in Germany, difficulties of the British industry during war and progress made.

—— 'Colour Manufacture and Modern Tendencies in Dyeing,' in *Jl. Textile Inst.*, Mar. 1920 (vol. 11), pp. 64–7.

Discusses some of the difficulties which present themselves in establishing an adequate coal-tar industry in dye stuffs.

¶ *Trade Journals:*

Dyer, Calico Printer, Bleacher and Finisher. Monthly to July 1916, then bi-monthly. 9*d*.

Technical articles, *re* processes, &c. Editorial notes, discussing effect of war conditions on the industry, Government dye scheme, &c. Notes as to state of trade, labour questions, &c., in provinces. Reports of markets (Liverpool and Manchester), including prices of chemicals at Manchester.

Society of Dyers and Colourists, Journal of. Bradford. Monthly. 5*s*.

Largely composed of technical articles *re* processes, but contains papers read at meetings of the Society (with discussions), notes and some correspondence as to difficulties and progress of the dye industry, and Reports of Dye Wares Supply Committee.

2. CLOTHING TRADES[1]

¶ *Official Publications :*

Ministry of Labour. *Labour Gazette,* Ap. 1921 (vol. 29), pp. 178–9. 'Retail Prices of Clothing, 1914–1921.'

Gives retail prices of clothing of grades purchased by working-class families, July 1914 and March 1921. Describes methods by which percentage increases in prices of clothing are calculated.

War Office. Army Clothing Factory, Annual Accounts of, with Report of Comptroller and Auditor-General. — (Accts. for 1914–15) 1916, No. 9, vol. 17. 6 pp. —(Accts., 1915–16) 1917–18, No. 35, vol. 19. 6 pp.—(Accts., 1916–17) 1918, No. 16, vol. 15. 5 pp.—(Accts., 1917–18) 1919, No. 33. 5 pp.—(Accts., 1918–19) 1920, No. 51. 5 pp.

¶ *Books and Periodicals :*

Firth, A. S. 'An Analysis of the Increased Cost of Clothing Materials during the period July 1914 to Oct. 1918,' in *Econ. Jl.,* Dec. 1918 (vol. 28), pp. 452–6.

Gives index numbers, showing increase in prices of wool, tops, yarns, raw cotton, cotton yarns and cotton cloths.

Haslam, James. 'Army Clothing Contracts,' in *E. W.,* Mar. 1915 (vol. 25), pp. 224–35.

Discusses low wages being paid to women in khaki-weaving and making up of army clothing.

Hitchcock, Eldred F. 'Military Tailoring in East London,' in *Toynbee Record,* Jan. 1915 (vol. 27), pp. 38–44.

Gives figures showing profits of firms receiving War Office contracts when they give out work to sub-contractors. (*Vide* also note on the subject in *Toynbee Record,* March 1915, p. 52).

¶ *Trade Journals :*

Men's Wear. Weekly. 4*d.*

Contains a fair amount of information as to state of trade in clothing industry, allocation of Government contracts, standardized clothing scheme, &c. Occasional references to labour questions (wages, organization, supply of labour, &c.).

Outfitter. Weekly. 2*d.*

Contains a certain amount of information as to state of trade, Government contracts, labour questions, &c.

3. ENGINEERING

a. GENERAL, INCLUDING MUNITIONS AND AIRCRAFT[2]

¶ *Acts of Parliament :*

Ministry of Munitions Act, 1915. 5 & 6 Geo. V. c. 51. 2 pp.

Ibid., 1918. 8 & 9 Geo. V. c. 60. 1 p.

Munitions of War Act, 1915. 5 & 6 Geo. V. c. 54. 10 pp.

Ibid. (Amendment) Act, 1916. 5 & 6 Geo. V. c. 99. 10 pp.

Ibid., 1917. 7 & 8 Geo. V. c. 45. 5 pp.

[1] *Vide* also TEXTILES, § J, 10, *infra,* pp. 279–94.

[2] *Vide* also IRON AND STEEL TRADES, § J, 6, *infra,* pp. 267–72; and LABOUR: MUNITIONS, § V, A, 3, *infra,* pp. 393–8, and 393 n. For further articles reference may be made to the 'Industrial Arts Index', an index to a selected list of engineering and trade periodicals, issued bi-monthly, cumulating throughout the year, published by H. W. Wilson Co., White Plains, New York. The references are mainly to American conditions.

¶ *Official Publications :*

Manuals of Emergency Legislation. War Materials Supplies Manuals.

Vide supra, p. 84.

Statutory Rules and Orders for 1915, &c. (*Vide supra*, p. 85.)

Contain Orders made by Minister of Munitions, Minister of Labour, Secretary for Scotland and Lord Lieutenant of Ireland, with regard to ordering of work in Controlled Establishments, limitation of profits and munition exchequer payments, employment and remuneration, leaving certificates, war service badges, constitution and procedure of tribunals, and restoration of pre-war practices.

Board of Trade. Engineering Trades, position of, after the war, Report of Departmental Committee on. 1918, Cd. 9073, vol. 13. 54 pp.

Gives a short account of the industry during war. Discusses advantages and disadvantages of Government control, organization of the industry (type of works, machinery, &c.), labour questions (from employers' point of view only), foreign competition, trade combinations, &c., &c. Describes pre-war position as regards wolfram ore and tungsten and Government action in securing supplies and establishing reduction works. Evidence not published.

—— *Bd. of Trade Jl.*, Aug. 1, 1918 (vol. 101), pp. 145–7. 'Ministry of Munitions : Nature of Controls exercised.'

Gives a general sketch of controls exercised by, and powers of, Ministry of Munitions, and account of working of Priority Department and War Priorities Committee.

Ministry of Munitions. Appropriation Accounts of sums granted by Parliament to defray expenses of Ministry of Munitions, with report of Comptroller and Auditor-General, for 1915–16 and 1916–17. 1917–18, No. 40, vol. 20. 19 pp. 1918, No. 24, vol. 15. 28 pp. —*Ibid.*, with Annual Accounts of National Factories, for 1917–18 and 1918–19. 1919, No. 79. 46 pp. 1920, No. 97. 27 pp.

These should be read in conjunction with the Reports of Committee of Public Accounts (*vide supra*, p. 88). The Account for 1915–16 contains a description of the formation and work of the Ministry.

—— Cost, Work and Staff of the Ministry of Shipping and the Ministry of Munitions, Memorandum on. 1920, Cmd. 1055. 14 pp.

Contains (pp. 8–14) statement of receipts and expenditure of Ministry of Munitions, 1919–20 and 1920–1, present work of the Ministry and staff.

—— Factories Branch, Report on Statistical Work of. H.M.S.O. 1919. 202 pp.

Deals with the materials manufactured by the factories and general account of processes involved, technical records connected with manufacture of acids and explosives and cost records of the same, &c.

—— Factories Branch, 2nd Report on Costs and Efficiencies for H.M. Factories controlled by, Sep. 20, 1918. H.M.S.O. 1919. 134 pp.

Shows comparative costs and efficiencies for varying periods, at all factories under Factories Branch, of the different acids and explosives produced, noting especially manner in which costs vary at each factory.

—— H.M. Factories at Gretna and Waltham Abbey, Report of Committee of Inquiry into the future of. 1920, Cmd. 667. 3 pp.

Gives reasons for continuing Gretna and closing down Waltham Abbey.

—— National Factories and Royal Aircraft Factory, Annual Accounts of, for 1916–17, with report of Comptroller and Auditor-General. 1918, No. 68, vol. 15. 8 pp.

(Accounts of National Factories for 1915–16, 1917–18 and 1918–19 are included in Appropriation Accounts of

Ministry of Munitions (*cont.*)

Ministry of Munitions, *supra*. Accounts of Royal Aircraft Factory for previous years are appended to Army Appropriation Accounts, *vide supra*, p. 92).

—— Ordnance Factories. Annual Accounts, with Report of Comptroller and Auditor-General. —(Accts., 1915–16) 1917–18, No. 55, vol. 20. 15 pp. — (Accts., 1916–17) 1918, No. 37, vol. 15. 10 pp. — (Accts., 1917–18) 1919, No. 81. 10 pp. — (Accts., 1918–19) 1920, No. 99. 10 pp.

Balance sheet, capital account, statement of liabilities and assets, &c. (For Acct. for 1914–15, *vide* War Office, *infra*).

—— *Ibid.* Appropriation Accounts, with Report of Comptroller and Auditor-General. — (Acct., 1915–16) 1917–18, No. 41, vol. 20. 6 pp.—(Acct., 1916–17) 1918, No. 25, vol. 15. 6 pp.—(Accts, 1917–18) 1919, No. 80. 5 pp.—(Acct., 1918–19) 1920, No. 98. 5 pp.

Accounts of total sums expended compared with sums granted. Details of expenditure and receipts. Short reports of comptroller commenting on accounts. (For Acct. for 1914–15, *vide* War Office, *infra*).

—— Royal Ordnance Factories, Woolwich, Reports of Committee of Inquiry into. 1919, Cmd. 229. 19 pp.

Three interim reports and final (covering) report. Discuss (1) existing conditions *re* storing of explosives; (2) pros and cons of continuance of Woolwich as Government arsenal after war and existing defects in administration; (3) existing system of costing.

—— Scottish Filling Factory (No. 4 National), Georgetown, Renfrewshire, Official History of. Prepared under instructions of Directing Board of the Factory. 1919. 198 pp. Illustrated.

Describes organization of production of munitions in Scotland. construction of Georgetown factory, its lay-out, organization, supply of labour, &c. Gives production statement and balance sheet, Sep. 1918, and statistics of output.

—— *M. of M. Jl.* Monthly. Dec. 1916 to Dec. 1918. Illustrated.

Largely composed of technical articles describing processes of manufacture of munitions, new machinery and appliances, &c. Contains also notes and articles on arrangements made for increasing production, control of materials, work of Priority Department, women's work, welfare work, &c.

Ministry of Reconstruction. Engineering Trades (New Industries) Committee, Report of. 1918, Cd. 9226, vol. 8. 39 pp.

Discusses prospects of manufacture of articles not made in U. K. in any quantity before the war. Incidentally gives some information as to the industry during war.

—— Reconstruction Problems, No. 5. New Fields for British Engineering. H.M.S.O. 1918. 14 pp.

Gives some of the information obtained by Engineering Trades (New Industries) Committee and action of Minister of Reconstruction thereon.

War Office. Ordnance Factories. Annual Accounts for 1914–15. 1916, No. 47, vol. 17. 19 pp.—Appropriation Account, 1914–15. 1916, No. 8, vol. 17. 8 pp.

Cf. Ministry of Munitions, Ordnance Factories, Annual Accounts and Appropriation Accounts, *supra*.

—— Royal Aircraft Factory, Report of Committee on, and Report to War Committee by Air Board on. 1916, Cd. 8191, vol. 4. 9 pp.

Committee discuss whether organization and management of the factory are efficient and make suggestions for improvement. Report of Air Board criticizes their suggestions. (Figures as to output, numbers employed, &c., are omitted in the public interest).

¶ *Books and Periodicals :*

Addison, Christopher. British Workshops and the War. T. Fisher Unwin. 1917. 52 pp.

A speech delivered in House of Commons, June 28, 1917. Reviews organization and work of Ministry of Munitions.

Armitage, Herbert C. 'Jigs, Tools and Special Machines, with their relation to the production of standardized parts,' in *Proc. Inst. Mech. Engineers*, Jan.–May 1919, pp. 213–344 (with discussions).

Discusses advantages of use of jigs, &c. Reference made to effect of war on workshop practice, i. e. development of mass production and standardized parts.

British Association for Advancement of Science. Address of President of Engineering Section (Gerald C. Storey), in *Report of British Assoc.*, 1916, pp. 448–55.

Discusses general questions affecting engineering industry (need for research, methods of payment, combination, &c.). Refers to opposition of Armament Ring to production of munitions by other firms and unfair conditions imposed by Ring on sub-contractors.

Carter, Fredk. W. 'How Big Industries are changing over to Peace Production,' in *System*, Jan. 1919 (vol. 35), pp. 11–18. 'Plans for Peace Production,' in *Ibid.*, Feb. 1919, pp. 89–94.

Describes steps taken by various firms, engaged on munitions during war, to organize for peace production.

Crompton, R. E. B. 'Notes on Screw Gauges,' in *Proc. Inst. Auto. Engineers*, 1916–17 (vol. 11), pp. 173–206 (with discussion).

Contains some account of difficulties experienced on outbreak of war by gauge-makers and Government inspectors, and steps taken by Ministry of Munitions Gauge Department to increase production.

Davies, J. H. 'Oxy-acetylene Welding,' in *Proc. Inst. Mech. Engineers*, Jan.–May 1919, pp. 87–97.

Re processes. Gives estimate of numbers employed in oxy-acetylene welding and proportion who have entered the field since war began.

Elder, T. C. 'Mechanical Equipment of the Empire,' in *E. R.*, Ap. 1917 (vol. 24), pp. 327–36.

Describes the sudden mechanical reformation caused by war and urges paramount importance of the engineering industry.

George, David Lloyd. Through Terror to Triumph : Speeches and Pronouncements . . . since beginning of the War. Ed. by F. L. Stevenson. Hodder & Stoughton. 1915. xii + 187 pp.

Contains speeches delivered in House of Commons and elsewhere with regard to organization of production of munitions (organization of employers and supply of labour, limitation of profits, relaxation of trade union restrictions, work of the Munitions Department, &c.).

Goodwin, Sir Geo. Presidential Address in *Jl. Inst. Metals*, 1920, No. 1 (vol. 23), pp. 45–64.

Refers (pp. 62–3) to difficulties in production of copper tubes and shell-bands and successful experiments made by a Leeds firm.

Herbert, Sir Alfred. 'Machine Tools,' in *Trans. N.–E. Coast Inst. Eng. and Shipbuilders*, 1918–19 (vol. 35), pp. 179–226 (with discussion).

Gives historical account of development of machine tools and some information as to effect of war (e. g. steps taken to increase production, regulations made to prevent profiteering, &c.) and discusses future prospects.

Hopkinson, Edward. Presidential Address in *Proc. Inst. Mech. Engineers*, Oct.–Dec. 1919, pp. 631–58.

Pp. 632, 634–43. Discusses changes introduced in engineering industry during war, e. g. production of high-class

repetition work, growth of co-operation, recognition of need for instruction in industrial management.

Institution of Civil Engineers. *Minutes of Proceedings.* Quarterly. I.C.E., Gt. George Street.

Mainly technical. *Vide* also article by CALDWELL, J. and SAYERS, H. B., *infra*, p. 244.

Institution of Mechanical Engineers. *Proceedings.* Half-yearly. I.M.E., Storey's Gate.

Mainly technical articles. *Vide* also articles by ARMITAGE, H. C., DAVIES, J. H., HOPKINSON, E. (*supra*), &c.

Jeffcott, H. H. 'Munition Work done by the Engineering Department of the Royal College of Science for Ireland,' in *Jl. Dept. Agric. and Tech. Inst. Ireland*, Jan. 1919 (Vol. 19), pp. 175–9.

Describes work done in manufacturing munitions.

Larard, C. E. *Vide* WALMSLEY, R. M., and LARARD, C. E., *infra*.

Mahon, R. 'Munitions and Mr. Lloyd George,' in *Ed. R.*, July 1919 (vol. 230), pp. 207–26.

Describes work done by War Office in organizing production of munitions and dealing with question of labour supply, before establishment of Ministry of Munitions.

National Review, Jan. 1917 (vol. 68), pp. 647–53. 'The Muddle in Munitions,' by 'One of the Victims.'

Criticizes, from factory manager's point of view, organization of the Ministry of Munitions (internal friction, unwieldy size, overlapping with other departments, multiplication of inspectorates, &c.).

Rintoul, William. 'Explosives,' in *Annual Reports of Progress of Applied Chemistry*, issued by Soc. of Chem. Industry, 1919 (vol. 4), pp. 523–73 and 1920 (vol. 5), pp. 523–65.

Gives an account of methods employed in production of various explosives for war purposes.

Robertson, Sir R. 'The Research Department, Woolwich,' in *Nature*, Aug. 5 and 12, 1920 (vol. 105), pp. 710–12, 743–5.

Gives brief description of research work undertaken and results obtained in manufacture of explosives and munitions during war.

Shadwell, A. 'The Mobilization of Industry for War,' in *Ed. R.*, Jan. 1916 (vol. 223), pp. 172–94.

Describes position on outbreak of war (e. g. number of armament firms) and steps taken to increase output of munitions (formation of local committees, organization of Ministry of Munitions, &c.).

Society of Engineers. *Journal and Transactions.* Monthly. 17 Victoria Street.

Technical articles. *Vide* also articles by ISHERWOOD, J. W., and TWELVETREES, W. N., *infra*, pp. 251, 252.

Walker, Frank. 'Engineering Costs, July 1914 to June 1920,' in *Beama Jl.*, July 1920 (vol. 7), pp. 9–19.

Reviews, giving tables and diagrams, principal variations in engineering costs which have occurred during the period (wages, prices of various materials used, &c.).

Walmsley, R. M., and **Larard, C. E.** 'Engineering Colleges and the War,' in *Proc. Inst. Mech. Engineers*, Oct.–Dec. 1915, pp. 719–96 (with discussion and correspondence).

Describes what is being done by technical colleges in manufacture of munitions and training of munition workers, discusses how far trainees are efficient, &c.

Weir of Eastwood, Lord. 'Some Developments in Aircraft Design and Application during the War,' in *Trans. N.-E. Coast Inst. Eng. and Shipbuilders*, 1918–19 (vol. 35), pp. 268–347 (with discussion and correspondence).

Describes in detail development in aircraft design and construction. Refers to growth of production (monthly deliveries at beginning and end of war) and difficulties encountered with regard to supplies of material.

Wickenden, Arthur F. '"Red Cross" Work amongst Machinery,' in *System*, Ap. 1918 (vol. 33), pp. 253–6.

Gives examples of progress made in oxy-acetylene welding during war.

¶ *Trade Journals :*

Cassier's Engineering Monthly. Contd. from Feb. 1919 as *Engineering and Industrial Management*. Monthly. 1*s*. 6*d*. Illustrated.

Articles on technical subjects, industrial organization, labour questions, engineering finance, engineering abroad, &c. Shows progress of scientific management. Advocates welfare work.

Engineer. Weekly. 8*d*. Illustrated.

High-class journal. Technical articles. Weekly reports of iron, steel, coal and engineering industries in various districts (state of trade, labour conditions, Government control, &c.). Considerable amount of information on progress of engineering industry. Occasional information *re* employment of women. Short annual reviews in first issue of each year. Some information *re* progress of shipbuilding.

Engineering. Weekly. 8*d*. Illustrated.

High-class journal. Largely technical articles. Also articles on labour questions, Munitions Acts, employment of women (occasionally), &c., and on shipbuilding (types of construction, output, standardization). Brief market reports.

Engineering and Industrial Management. *Vide* CASSIER'S ENGINEERING MONTHLY, *supra*.

Engineering Review. Monthly. 10*s*. 6*d*. p. a. Illustrated.

Mainly technical, but contains notes and articles on matters affecting the industry, e. g. labour questions, employment of women, Government action, &c.

Foundry Trade Journal. Monthly. 7*s*. 6*d*. p. a.

Mainly technical papers. Also reports of meetings of British Foundrymen's Association, occasional references to conditions in the industry (e. g. apprenticeship, employment of women, &c.).

Gas and Oil Power. Monthly. 6*d*.

Reviews progress in gas and oil power engineering. Gives short trade reports.

Railway News. (*Vide infra*, p. 346.)

Has short notes on current engineering topics and events, reports of papers read to societies, accounts of improvements in rolling stock construction, &c.

Times. Engineering Supplements. Monthly. 2*d*.

Contain special articles on engineering of all kinds (electrical, gas, railway, marine, munitions, aeronautics, &c.), dealing with state of trade, developments, output, standardization, labour questions, &c. January numbers contain long reviews of the engineering industry during previous year.

b. ELECTRICAL ENGINEERING [1]

(*including Lighting, Supply and Traction*)

¶ *Acts of Parliament :*

Electricity (Supply) Act, 1919. 9 & 10 Geo. V. c. 100. 25 pp.

Provides for appointment of Electricity Commissioners, division of U. K. into electricity districts and establishment of joint electricity authorities.

¶ *Official Publications :*

Board of Trade. Electric Power

[1] *Vide* also ENGINEERING : GENERAL, § J, 3, a, *supra* ; and (for rationing of electricity), GAS MANUFACTURE, § J, 4, *infra*, pp. 255–60.

Board of Trade (*cont.*)

Supply, Report of Committee on. 1918, Cd. 9062, vol. 8. 17 pp.

Deals with post-war prospects. Recommends establishment of a new body, to control generation and transmission of electricity.

—— Electrical Trades, position of, after the War, Report of Departmental Committee on. 1918, Cd. 9072, vol. 13. 14 pp.

Deals with electricity generation and transmission, electric traction and manufacturing. Describes disadvantages under which industry lies at present (restrictive legislation, &c.) and makes various recommendations for improvement.

—— Profiteering Act. Electric Lamp Industry, existence of Trust or Trade Combination in, Findings of a sub-committee of Standing Committee on Trusts on. 1920, Cmd. 622. 15 pp.

Gives an account of development of incandescent electric lamp industry, formation of trade combination, its methods of working and effect on prices, and international arrangements.

Committees. Commercial and Industrial Policy, Committee on. Interim Report on certain Essential Industries. 1918, Cd. 9032, vol. 13. (*Vide supra*, p. 101.)

Pars. 13–16 (pp. 5–6) describe briefly pre-war position as regards supply of magnetos and development of the industry during war, and discuss measures to be taken for future assistance of the industry.

Ministry of Reconstruction. Electric Power Supply, Report of Committee of Chairmen on. 1919, Cmd. 93. 8 pp.

Makes recommendations *re* generation and transmission of electric power. Deals with post-war position.

—— Electric Power Supply in Great Britain, Interim Report of Coal Conservation Sub-Committee on. 1917–18, Cd. 8880, vol. 18. 28 pp.

Discusses inefficiency of present system and makes proposals for improvement. No further Report issued.

—— Reconstruction Problems. No. 24. Electrical Development. H.M.S.O. 1919. 13 pp.

Discusses advantages and cost of electricity, extent to which it has been utilized and further development possible. Gives brief account of past legislation *re* electricity supply, &c.

¶ *Books and Periodicals :*

Abell, Westcott Stile. 'Experiments on the Application of Electric Welding to Large Structures.' *Vide* under CALDWELL, JAMES, *infra*.

Andrews, Cuthbert. 'The Production of Electro-medical Apparatus in Great Britain,' in *Beama Jl.*, Oct. 1919 (vol. 5), pp. 261–9.

Gives some account of development of electro-medical and X-ray industry during war and describes apparatus used.

British Electrical and Allied Manufacturers' Association. Reports of the Council for 1916 to 1919. B.E.A.M.A., King's House, Kingsway.

Contain brief references to conditions during war, e. g. steps taken to maintain overseas trade, restriction and rationing of imports, movement for combination of electrical interests, &c.

—— *Beama Journal. Vide infra*, p. 247.

Caldwell, James, and **Sayers, Henry Bailey.** 'Electric Welding Developments in Great Britain and U.S.A.,' in *Minutes of Proc. Inst. Civil Engineers*, 1918–19, Pt. II (vol. 208), pp. 69–103.

Describes developments during war, investigations and experiments carried out in Great Britain and U.S.A. The same volume contains papers by Westcott Stile Abell on 'Experiments on the Application

of Electric Welding to large structures' (pp. 104–26), giving a technical account of experiments, and by John Reney Smith on 'The Application of Electric Welding in Ship Construction and Repairs' (pp. 127–33), citing recent instances of such application, and discussion and correspondence on the three papers (pp. 134–93).

Campbell, D. F. 'Recent Developments of the Electric Furnace in Great Britain,' in *Jl. Soc. Chem. Ind.*, July 31, 1920 (vol. 39), pp. 224–6 (T).

Mentions the various branches of metallurgy in which increased use of electrical energy has resulted during war, giving some figures to illustrate difference in quantity of energy used on electric furnaces in and since 1914. Describes further uses to which electrical energy has been put (e. g. in chemical manufacture, &c.) and its advantages, and gives some technical details regarding development of electric furnaces, &c.

Coates, Henry. 'Electric Furnaces and their Control,' in *Organiser*, May 1919 (vol. 24), pp. 545–9 and 563.

Gives an account of development of electric furnaces during war, and present problem (to find outlet for increased amount of steel produced).

Garcke, Emile. Manual of Electrical Undertakings, 1914–15, &c. (Vol. 18, &c.). Electrical Press.

Useful publication. Reviews the various branches of the electrical industry (telegraphs, telephones, supply, traction, manufacturing, &c.) during the year, at home and abroad. Shows effect of war on the industry and notes developments. Gives statistics of electrical enterprises (capital, dividends, loans authorized, lamps connected, units sold, capacity of plant installed, &c.), electrical imports and exports, electrical legislation during the year, prices of electrical investments, reports of individual companies and municipal undertakings, &c.

Gridley, Arnold B., and **Human, Arnold H.** 'Electric Power Supply during the Great War,' in *Jl. Inst. Electrical Engineers*, May and Aug. 1919 (vol. 57), pp. 406–15 and 541–6.

Useful account of electrical engineering during war. Describes expansion of electric power supply for munition purposes, extension of electric furnaces, electrically-driven compressors in shipyards, &c., concentration of generation, extensions of power-stations and plant, working of Government control, &c. Gives statistics of increase of plant of electric supply undertakings between June 30, 1914 and Oct. 31, 1918. Describes activities of individual firms in producing war material.

Hughes, W. E. 'The Electro-Deposition of Metals: Modern Practice and Applications,' in *Beama Jl.*, Ap. 1920 (vol. 6), pp. 415–20.

Contains (pp. 419–20) brief account of development of process of iron plating during war, for building up worn parts of aeroplanes.

Human, Arnold H. *Vide* Gridley, Arnold B., and Human, A. H., *supra*.

Institution of Electrical Engineers. *Journal.* Fortnightly till Feb. 1916, then monthly (irreg.). E. & F. N. Spon, London. Spon & Chamberlain, New York.

Mainly technical articles, but contains, *passim*, some information (usually in Chairmen's addresses to local centres and annual reports of the Council) as to position of industry during war. *Vide* also article by Gridley, A. B., and Human, A. H., *supra*.

Sayers, Henry Bailey. *Vide* Caldwell, James, and Sayers, H. B., *supra*.

Smith, John Reney. 'The Application of Electric Welding in Ship Construction and Repairs.' *Vide* under Caldwell, James, and Sayers, H. B., *supra*.

Stead, J. E. Presidential Address, in *Jl. Iron and Steel Inst.*, 1920, No. 1 (vol. 101), pp. 33–109.

Reviews progress in ferrous industries in past fifty years. Practically all pre-war. Gives (pp. 76–7) statistics showing increase in number and capacity of electric furnaces during war (for dealing with shell borings).

¶ *Trade Journals :*

Beama Journal. Quarterly. 1*s.* 6*d.*

Organ of the British Electrical and Allied Manufacturers' Assoc. Technical articles, theoretical discussions on industrial problems, &c.

Electrical Review. Weekly. 4*d.*

Electrical Times. Weekly. 2*d.*

These two journals contain information very similar to that in *Electrician* (*infra*). The *Electrical Times* contains tables of electric supply and tramway costs and records, e. g. financial position, output, working costs, price obtained, plant capacity, &c. (electric lighting), traffic records, costs, &c. (tramways), and comments on these records.

Electrician. Weekly. 6*d.*

Deals with electric lighting, power supply and traction. Contains information as to progress of the industry during war; technical articles; Parliamentary and legal intelligence; notes *re* provincial towns, e. g. Corporation extension schemes, reports of Lighting Committees (showing effect of war, increased charges, difficulties in obtaining coal supplies, &c.), reports of Tramways Committees (information *re* supply of labour, employment of women, insufficiency of power supply); prices of shares of electrical companies and dividends paid; lists of applications for Provisional Electric Lighting Orders; discussions *re* Electricity and Gas Restriction Orders, &c., &c.

Glasgow Herald. Annual Supplements on Shipbuilding, Engineering, and Commerce. (*Vide infra*, p. 252.)

Contain reviews of the electricity supply industry during the year.

Times. Engineering Supplements. (*Vide supra*, p. 242.)

Contain good articles on state of the electrical industry and yearly review on progress.

c. MARINE ENGINEERING AND SHIPBUILDING [1]

¶ *Official Publications :*

Board of Trade. Navigation and Shipping, Annual Statements of. (*Vide infra*, p. 350.)

Contain statistics of number of mercantile vessels built, &c.

—— Shipping and Shipbuilding Industries after the War, Reports of Departmental Committee on. 1918, Cd. 9092, vol. 13.

Vide infra, p. 351.

¶ *Books and Periodicals :*

Ballard, Maxwell. 'The Relation between Shipbuilding Production, Prices, and the Freight Market,' in *Engineering and Industrial Management*, Dec. 30, 1920 (N.S., vol. 4), pp. 837–41.

Discusses changes caused by war in output, price of tonnage and freight rates in U. K., and remedy for existing situation. Compares tonnage position with that of foreign countries, especially U.S.A. Discusses reasons for freight rate fluctuations in connexion with shipbuilding output.

Carozzi, J. L. British Shipbuilding. *Syren and Shipping.* 1919. 200 pp.

[1] *Vide* also ENGINEERING: GENERAL, § J, 3, a, *supra*, pp. 231–42, and SHIPPING, § IV, F, *infra*, pp. 349–64. For further fererences *vide* U.S., Library of Congress, 'List of References on Shipping and Shipbuilding,' compiled under the direction of Herman H. B. Meyer, Government Printing Office, Washington, 1919 (303 pp.). This list contains over 1,000 references on Shipbuilding—the history and general subject, special kinds of ships (wooden, concrete, iron and steel, &c.), standardization, labour questions, &c.—and includes references on Great Britain.

Contains technical engineering matter, statistics of vessels launched, and illustrated accounts of activities of individual British shipbuilding firms during war, giving their histories and descriptions of their works and plant.

Carter, Sir George. 'Standard Cargo Ships,' in *Trans. Inst. Naval Architects*, 1918 (vol. 60), pp. 1–22 (with discussion).

Gives some account of work of Advisory Committee on Merchant Shipbuilding in connexion with building of standard ships and shows some of the advantages of standardization. Discussion contains a good deal of criticism of standardization.

Cassier's Engineering Monthly, Feb. 1917 (vol. 51), pp. 83–7. 'Standard Ships,' by 'A Naval Architect'.

Describes arrangements made by Shipping Controller to increase carrying capacity of ships. Refers to combined action among firms during war with regard to common preparation of plans and loan of draughtsmen, &c., to each other.

Clarke, Edward F. *Vide* GRAY, W. R. and CLARKE, E. F., *infra*.

Cochrane, A. H. J. 'A short record of the work of the principal industries of the north-east coast during the War,' in *Trans. N.-E. Coast Inst. Eng. and Shipbuilders*, 1918–19 (vol. 35), pp. 479–524 (with discussion).

Gives a short account of output of ships and development of marine engineering during war on north-east coast, with schedules giving for each firm number and particulars of vessels built.

Craig, James. 'Some Effects of War on Merchant Shipbuilding,' in *Trans. Inst. Eng. and Shipbuilders in Scotland*, 1918 (vol. 61), pp. 268–320.

Deals with supply of materials, substitutes in use, changes in construction and design of ships, standard ships, new appliances, &c.

Engineering and Industrial Management, June 10, 1920 (N.S. vol. 3), pp. 754–6. 'Standard Marine Engines.'

Discusses advantages to be gained by standardization and how far the principle can be carried. Shows that attempt to introduce standardization on national scale during war was a failure and gives reasons therefor.

Fortnightly Review, May 1918 (vol. 103), pp. 664–77. 'The Fight against Starvation,' by 'Vectis'.

Discusses pressing need for ships and neglect of mercantile marine, measures taken for speeding up shipbuilding and hindrances thereto, question of standardization, &c.

Goodwin, Sir George. Presidential Address in *Jl. Inst. Metals*, 1920, No. 1 (vol. 23), pp. 45–64.

Deals with aims and developments of naval engineering (mainly pre-war).

Gray, W. R., and **Clarke, Edward F.** 'Shipbuilding Development in U.S.A. and Canada,' in *Trans. N.-E. Coast Inst. Eng. and Shipbuilders*, 1918–19 (vol. 35), pp. 151–78 (with discussion).

Describes war developments in shipbuilding seen by authors in tour to U.S.A. and Canada. Incidentally compares American with British practice and discusses future prospects of British shipbuilding and competition with America. Refers to disinclination of British shipowners to purchase ships owing to their high cost and to Government control of freights.

Heath, Sir Frank. 'Scientific Research in connexion with Marine Engineering and Shipbuilding,' in *Trans. N.-E. Coast Inst. Eng. and Shipbuilders*, 1918–19 (vol. 35), pp. 69–85 (with discussion).

Describes policy of Dept. of Scientific and Industrial Research and gives some information as to working of the scheme.

Institution of Engineers and Shipbuilders in Scotland. *Transactions* for 1914–15, &c. Yearly.

Vol. 58, &c. I.E.S.S., 39 Elmbank Crescent, Glasgow.

Technical articles. *Vide* also article by CRAIG, JAMES, *supra*.

Institution of Naval Architects. *Transactions* for 1914, &c. Vol. 57, &c. I.N.A., 5 Adelphi Terrace.

Contains chiefly technical articles. *Vide* also articles by CARTER, SIR GEORGE, *supra*, and MORISON, D. B., *infra*.

Isherwood, J. W. 'Modern Shipbuilding and Economy in Material,' in *Jl. and Trans. Soc. Engineers*, May 1918 (vol. 9), pp. 103–52 (with discussion). Illustrated.

Discusses advantages of 'Isherwood' system of construction. Criticizes Government's policy of standardization, &c.

James, M. C., and Smith, Launcelot E. 'Ship Repairing on the North East Coast during the War,' in *Trans. N.-E. Coast Inst. Eng. and Shipbuilders*, 1918–19 (vol. 35), pp. 349–87 (with discussion). Illustrated.

Gives an account of organization set up for repair of ships (naval and mercantile) and work accomplished on north-east coast.

Lloyd's Register of Shipping.

Vide infra, p. 361.

McLennan, J. C. 'Science and its Application to Marine Problems,' in *Trans. N.-E. Coast Inst. Eng. and Shipbuilders*, 1918–19 (vol. 35), pp. 386–410 (with discussion).

Gives an account of organization of inventions and research by the Admiralty, scientific advances made in naval and marine problems during war, &c.

Morison, D. B. 'Standardization as applied to the Machinery for Cargo Boats,' in *Trans. Inst. Naval Architects*, 1917 (vol. 59), pp. 1–21 (with discussion).

Considers the various technical problems connected with standardization of cargo boat machinery and discusses action already being taken in this matter by North-East Coast Institution of Engineers.

North-East Coast Institution of Engineers and Shipbuilders. *Transactions*. Yearly. N.-E.C.I.E.S., Bolbec Hall, Newcastle-on-Tyne.

Mainly technical articles, *re* construction of ships, &c. *Vide* also articles by COCHRANE, A. H. J., GRAY, W. R. and CLARKE, E. F., HEATH, SIR F. (*supra*), &c.

Orde, Edwin L. Presidential Address in *Trans. N.-E. Coast Inst. Eng. and Shipbuilders*, 1917–18 (vol. 34), pp. 7–22.

General discourse on industrial position, need for research, &c. Discusses policy of standardization.

Smith, J. Russell. Influence of the Great War upon Shipping.

Vide infra, p. 362.

Smith, John Reney. 'The Application of Electric Welding in Ship Construction and Repairs.' *Vide* under CALDWELL, JAMES, and SAYERS, H. B., *supra*, p. 244.

Smith, Launcelot E. *Vide* JAMES, M. C. and SMITH, L. E., *supra*.

Twelvetrees, W. Noble. 'British Concrete Shipbuilding,' in *Jl. and Trans. Soc. Engineers*, 1919 (vol. 10), pp. 10–32. Presidential address. Illustrated.

Describes progress of concrete shipbuilding during war, working of the Admiralty scheme, new ship-yards established and method of construction.

¶ *Trade Journals :*

Fairplay. Weekly.

Vide infra, p. 363.

Glasgow Herald. Annual Supplement on Shipbuilding, Engineering and Commerce. Published in December. Glasgow and London.

Gives review of the shipbuilding industry for the year, discussing questions of Government action, labour questions, congestion at docks, standard ship construction, &c. Supplement for 1918 gives output statistics, for the five war years, of shipbuilding and marine engineering firms in U.K.

Liverpool Journal of Commerce. Weekly Shipbuilding and Engineering Edition. Liverpool.

Good representation of shipping interests, giving special attention to north-east coast activities. Leaders and discussions on current topics. Criticism of Government measures. Trade and shipping reports. Reports of papers read to technical societies. Long technical engineering articles and accounts of developments, conditions, &c., in engineering and shipbuilding industries. Shipping patents. Port developments. Foreign news. Good annual reviews (in December or January) of shipbuilding and marine engineering progress.

Lloyd's List and **Lloyd's Weekly Summary.**

Vide infra, pp. 363–4.

Shipbuilding and Shipping Record.

Vide infra, p. 364.

Shipping World and Herald of Commerce.

Vide infra, p. 364.

Times. Engineering Supplements. (*Vide supra*, p. 242.)

Contain articles on shipbuilding and marine engineering, with yearly review in January.

d. THE MOTOR INDUSTRY[1]

¶ *Books and Periodicals:*

Institution of Automobile Engineers. *Proceedings.* Yearly. I.A.E., 28 Victoria Street.

Mainly technical, but contain papers and information, *passim*, as to effect of war on the motor industry, production of munitions by motor firms and difficulties encountered.

Motor Transport Year Book and Directory. Vol. 1 (1916), &c. Electrical Press.

Gives statistical and descriptive information relating to companies and corporations engaged in public motor transport business, balance sheets, &c., of firms manufacturing motors and accessories, &c.

Organiser. *Motor Transport Supplement*, Mar. 1919 (Vol. 24), pp. 299–331.

Contains articles on Government control of motor vehicle supply during war and question of disposal of Government-owned vehicles, developments during war, &c.

Sinclair, A. Fraser. 'Commercial Motor Vehicles,' in *Cassier's Engineering Monthly*, May 1916 (vol. 49), pp. 318–20.

Discusses present position of commercial motor industry and future prospects (Government requisitioning of output, loss of goodwill abroad, &c).

Wyatt, Horace. 'The Motor Industry and the War,' in *Q. R.*, July 1915 (vol. 224), pp. 178–92.

Gives some account of requisitioning of motor vehicles by Government and discusses possible effects on the industry.

¶ *Trade Journals:*

Automobile Engineer. Monthly. 2*s*.

A technical journal dealing with theory and construction of automobiles. Contains slight information as to effect of war on the industry.

Motor Traction. Weekly. 4*d*.

Deals with improvements and progress generally in construction of motors for commercial uses and farm tractors, new company formations, new patents, labour questions, &c.

[1] *Vide* also ENGINEERING: GENERAL and ELECTRICAL, §§ J, 3, a and b, *supra*, pp. 231–48. For development of agricultural tractor industry during the war, *vide* under AGRICULTURE, § III, B, 1, *supra*, pp. 135–64, *passim*.

4. GAS MANUFACTURE

¶ *Acts of Parliament:*

Gas Regulation Act, 1920. 10 & 11 Geo. V. c. 28. 13 pp.

Gas (Standard of Calorific Power) Act, 1916. 6 & 7 Geo. V. c. 25. 1 p.

Statutory Undertakings (Temporary Increase of Charges) Act, 1918. 8 & 9 Geo. V. c. 34. 2 pp.

¶ *Official Publications:*

Manuals of Emergency Legislation. Defence of the Realm Manuals. Defence of the Realm Regulations. (*Vide supra*, p. 84).

Contain Regulations with regard to gasworks and Orders made thereunder.

In *Defence of the Realm Manuals, vide* Lighting, Heating and Power Order, Mar. 26, 1918 (Statutory Rules and Orders, 1918, No. 366), restricting use of coal, gas and electricity; Household Fuel and Lighting Order, June 28, 1918 (S.R.O. 1918, No. 818), instituting a system of rationing of coal, coke, gas and electricity. In *War Materials Supplies Manuals, vide* Gas Works (Ministry of Munitions) Order, June 28, 1918 and Gas Works (Ministry of Munitions) General Regulations, 1918, requiring Gas Undertakings to scrub or wash their gas for extraction of ammonia, &c., and fixing a minimum calorific value for gas.

In *Defence of the Realm Regulations, vide* Reg. 2, par. b, Nov. 28, 1914 (as to taking possession of land and buildings, including works for supply of gas, electricity, &c.); Reg. 16, Nov. 28, 1914 (as to preparations for destruction of gasworks, &c. by naval or military authorities); Reg. 8D, May 23, 1916 (giving power to Admiralty, &c., to require supply of light, heat or power for certain premises); and Reg. 8G, May 11, 1918 (authorizing Admiralty, &c. to issue regulations with regard to gas works, with the object of utilizing them for production of war material).

Board of Trade. Gas and Water Orders. Report on proceedings under Gas and Water Works Facilities Act, 1870, during 1920. 1920, Cmd. 911. 5 pp.

Gives particulars as to applications for construction, &c., of gas and water-works. Tables giving number of Provisional Orders made annually since 1871.

—— Gas Undertakings in U.K. other than those of Local Authorities, Return relating to, for 1919. [In continuation of No. 311 of 1915, a return for 1913.] 1920, Cmd. 1021. 103 pp.

Gives particulars, for each undertaking, of balance sheets, profit and loss accounts, price of gas, amount of gas made and sold, &c., &c.

Committees. Gas Undertakings (Statutory Prices), Select Committee on. Report, with Minutes of Evidence and Appendices. Index and Digest of Evidence. 1918, No. 74, 74–Ind., Vol. 3. x + 188 pp.

Discusses need for temporary modification in statutory requirements as to price of gas and dividends. Evidence contains detailed historical account of the industry, especially as regards charges and dividends, information as to financial position of the gas undertakings, difficulties caused by war conditions (rise in price of coal, &c., inferior quality of coal, extraction of ingredients from gas for explosives, selling of by-products to Government at fixed prices, and increased labour costs). Appendices contain statements for various companies as to prices charged for gas, dividends paid, &c.

Department of Scientific and Industrial Research. Fuel Research Board, Report of, on their scheme of research and on the establishment of a Fuel Research Station.

Vide infra, p. 309.

—— Fuel Research Board, Report of, for 1918 and 1919.

Vide infra, p. 309.

H.M. Petroleum Executive. Gas, employment of, as a source of

power, Inter-Departmental Committee on. Report with Appendices and Index. 1919, Cmd. 263. 35 pp.

Largely technical. Describes experiments in utilization of gas for traction purposes. Short account of Government restrictions of use of gas. Evidence not published.

℄ *Books and Periodicals :*

Bone, Wm. Arthur. Coal and its Scientific Uses. Monographs on Industrial Chemistry, ed. by Sir Edward Thorpe. Longmans, Green & Co. 1918. 491 pp.

Mainly technical. Short account (pp. 294–7) of increased use during war of coal gas as industrial fuel in munitions centres and installation of plant for gas stripping, and (pp. 311–12) progress in by-product coking industry. Short bibliography.

Evans, E. V. 'Gas-Destructive Distillation : Tar Products' in *Reports of Progress of Applied Chemistry*, issued by Soc. of Chemical Industry, 1916 (vol. 1), pp. 31–59 ; 1917 (vol. 2), pp. 52–68 ; 1918 (vol. 3), pp. 41–62 ; 1919 (vol. 4), pp. 41–65.

Describes developments and researches in gas industry during the year. Mainly technical. (*Vide* also article by Weyman, G., *infra.*)

Haynes, Talbot. 'Using Gas in place of Petrol,' in *System*, Dec. 1917 (vol. 32), pp. 373–6.

Discusses progress made in utilizing coal gas for motor vehicles, and difficulties to be overcome.

Institution of Gas Engineers. *Transactions*, 1915, &c. E. & F. N. Spon.

Largely technical. Also contain, in Presidential addresses and annual reports of the Institution, some information as to position of the industry during war (e. g. as to supply of labour, difficulty in obtaining coal supplies and action taken).

Labour Co-partnership Association. Annual Reports. (*Vide infra*, p. 456).

Contain statistics and information as to position of co-partnership and profit-sharing in gas undertakings during war.

Meade, Alwyne. 'Modern developments in Gasworks Construction and Practice,' in *Proc. Inst. Civil Engineers*, 1917–18, Pt. II (vol. 206), pp. 81–149 (with discussion).

Deals mainly with pre-war developments, but writer also discusses (pp. 83–6) financial effects of war on gas industry, giving statistics of production of coal gas and water gas, pre-war and 1917, and describes (pp. 107–8) recovery of benzol and toluol during war.

Ramsay, N. M. 'The new Motor Fuel, the Possibilities of Coal Gas as a Petrol Substitute,' in *Organiser*, Feb. 1918 (vol. 22), pp. 42–6).

Discusses economy of gas as motor fuel, progress made in its use, and problems to be faced.

Thornton, Horace M. 'The Application of Coal Gas to Industry in War-time : Its national Importance,' in *Jl. Roy. Soc. Arts*, Ap. 20, 1917 (vol. 65), pp. 405–29 (with discussion).

Illustrated and rather popular account of increased use of gas furnaces during war in munition works, &c., with description of processes. Gives statistics of consumption of gas for industrial purposes in eight towns in 1915–16 compared with 1912–13 (obtained from gas engineers) and gas consumption of nine London factories engaged on war work.

Weyman, G. 'Gas-Destructive Distillation : Tar Products,' in *Reports of Progress of Applied Chemistry*, issued by Soc. of Chem. Industry, 1920 (vol. 5), pp. 42–70.

Similar to articles by Evans, E. V., *supra.*

Wimperis, H. E. 'Coal Gas for Motor Traction,' in *Nature*, Nov. 1, 1917 (vol. 100), pp. 166–7.

Discusses alternatives for petrol for motor traction, practicability of gas and extent to which it has already been utilized.

¶ *Trade Journals :*

Gas and Oil Power.
Vide supra, p. 242.

Gas Journal. *Vide* JOURNAL OF GAS LIGHTING, *infra*.

Gas World. With a monthly Coking and By-Products Section. Weekly. 6*d*.

Contains much information as to effect of war conditions on gas industry and manufacture of by-products (coke, sulphate of ammonia, tar products, explosives), financial position of Gas Companies, criticism of Coal Controller's actions as affecting gas industry, &c. Annual analysis of gas undertakings, giving statistics of amount of gas, coke and breeze, tar and ammoniacal liquor made, receipts, expenditure, profits, &c.

Journal of Gas Lighting and Water Supply. Contd. from beginning of 1917 as *Gas Journal*. Weekly. 6*d*.

Considerable amount of information as to effect of war conditions on gas industry and manufacture of by-products. Reports of Gas Companies. Financial statements periodically of comparative working results of Metropolitan and Suburban Gas Companies. Gas Legislation. Discussions *re* coal supplies, prices, &c., and action of Coal Controller, rationing of gas and electricity, &c. Useful and fairly full review annually, in last issue of December, of position during past year.

Times, Engineering Supplements. (*Vide supra*, p. 242.)

Contain a good deal of information as to progress in recovery of ammonia from gas works. Yearly survey in January.

World's Carriers. (*Vide infra*, p. 348.)

Reproduces Government Orders and follows all developments in the use of coal gas as a propellant.

5. GLASS AND POTTERY

a. GLASS

¶ *Official Publications :*

Manuals of Emergency Legislation. War Materials Supplies Manuals. (*Vide supra*, p. 84.)

Contain Orders &c., made *re* Glass.

Board of Trade. Profiteering Acts. Glass Bottles, Jars and Scientific Glassware, Int. Report on, by a sub-committee of Standing Committee on Trusts. 1920, Cmd. 1066. 9 pp.

Discusses prices of bottles, comparing prices in 1920 and 1914, growth and extent of combination among bottle manufacturers, &c., and position as regards scientific glassware (complaints as to quality and prices, demand for protection from foreign competition).

—— *Bd. of Trade Jl*, Sep. 26, 1918 (vol. 101), pp. 390–2. 'Optical and Chemical Glass : Building up a British Industry.'

Describes measures taken by Ministry of Munitions to develop British industry and control home and imported supplies and notes results.

—— *Ibid.*, Feb. 14, 1920 (vol. 104), pp. 252–3. 'Optical Glass : Manufacture and Supply.'

Gives some account of the position before and during war.

—— *Ibid.*, Feb. 26, 1920 (vol. 104), pp. 292–4. 'British Scientific Instruments : Past and Present.'

Describes changes in methods of production (of opera glasses, telescopes, &c.), during war and present state of the industry.

Committees. Commercial and Industrial Policy, Committee on.

Interim Report on certain Essential Industries. 1918, Cd. 9032, vol. 13. (*Vide supra*, p. 101).

Pars. 17–20 deal with optical and chemical glass. Give short account of Government control and recommend its continuance.

Department of Scientific and Industrial Research. Standardization of the elements of Optical Instruments, Report of Inquiry Committee on. H.M.S.O. 1920. 39 pp.

Gives the recommendations made by the Committee for a number of standards.

¶ *Books and Periodicals :*

Audley, J. A. 'Glass and Ceramics,' in *Reports of Progress of Applied Chemistry*, issued by Soc. of Chem. Industry, 1916 (vol. 1), pp. 133–49.

An account of researches and developments since war. Mainly technical. (*Vide* also articles by Rees, W. J., and Turner, W. E. S., *infra.*)

Blakesley, T. H. 'The Possible Effects of the War on British Optics,' in *Trans. Optical Soc.*, 1914–15 (vol. 15), pp. 5–34 (with discussion).

Contains some information with regard to position of British optical industry as compared with German.

Boswell, P. G. H. A Memoir on British Resources of Sands and Rocks used in Glass-making. Published at instruction of Ministry of Munitions by Imperial College of Science and Technology. 2nd ed., complete in one vol. Longmans, Green & Co. 1918. xi + 183 pp.

Combines memoir published in 1916 and supplementary memoir published in 1917. Describes composition of sands, &c., their treatment, sources of supply, development of British resources since war, distribution of glass industry in U. K. Statistics of imports and exports of sand, 1911–15.

Branson, F. W. 'Some Aspects of the Scientific Glass-ware Industry,' in *Jl. Soc. Chem. Industry*, Dec. 31, 1918 (vol. 27), pp. 337–40(T) (with discussion).

Contains description of researches carried out by writer. Some reference made to development of the industry during war, difficulties encountered, &c.

British Optical Instrument Manufacturers' Association. Dictionary of British Scientific Instruments. Constable & Co. 1921.

Contains (pp. 14–31) an account of the history of British optical glass up to the year 1916.

British Science Guild. Annual Reports. B.S.G., 6 John St, Adelphi.

9th Report, July 1915 (pp. 13–15, 32–8), describes steps taken by Guild to promote manufacture of optical glass and scientific glass apparatus in Great Britain. 11th Report, June 1917 (pp. 50–3), contains report of Sub-Committee on national instruction in Technical Optics ; discusses London County Council scheme and refers briefly to arrangements already made.

—— *Journal.* Jan. 1916 (No. 2), pp. 5–12 ; Nov. 1916 (No. 4), pp. 3, 28–34 ; Dec. 1917 (No. 6), pp. 3–5.

Contains Reports of Microscope Committee and other information as to progress made in use of British-made laboratory glass, &c. (Partly repeated in *Journal* for Jan. 1920 (No. 10), pp. 36–45, which contains revised Report of Microscope Committee).

—— *Ibid.*, June 1920 (No. 11), pp. 40–1. Report of Technical Optics Committee.

Describes conditions of the industry during past year.

Chance, James Fredk. A History of the Firm of Chance Brothers & Co., Glass and Alkali Manufacturers. Printed for private circulation by Spottiswoode, Ballantyne & Co. 1919. 302 pp.

A history of the firm from 1824. Deals mainly with pre-war period but contains (pp. 168, 183–6, 197, 267–9) some account of development of glass manufacture during war.

Chemical News. Jan. 3, 1919 (vol. 118), pp. 4–6. 'The British Chemical Ware Manufacturers' Association.'

Gives text of letter sent to Government departments by Glass Manufacturers' Associations, asking for Government assistance. Describes difficulties which have impeded development during war. Quotes prices of raw materials, 1914–16, &c.

Engineering Review, Oct. 16 and Nov. 5, 1916 (vol. 30), pp. 104–8, 138. 'Optical Glass: its Problems and Possibilities.'

Describes processes, difficulties in manufacture, problems to be met, and gives brief account of progress made during war.

Imperial College of Science and Technology. A Memoir on British Resources of Sands and Rocks used in Glass-making. *Vide* Boswell, P. G. H., *supra.*

Institute of Ophthalmic Opticians. *The Institute Journal and Optometrist*, Nov. 1918 (vol. 7), pp. 119–20.

Letter from Secretary of Association of Wholesale and Manufacturing Opticians, giving reasons for increases in price of spectacle ware, &c., with instances of increase.

Meigh, Edward. 'The Glass Research Association,' in *Nature*, Nov. 13, 1919 (vol. 104), pp. 299–301.

Discusses effect of war on development of the industry and co-operation among manufacturers, progress of research and problems to be solved.

Nature. (1) Ap. 15, 1915 (vol. 95), pp. 192–3. 'Formulas for Glass Manufacture.' (2) May 6, 1915 (vol. 95), pp. 266–7. 'The Supply of Optical Glass.' (3) Mar. 30, 1916 (vol. 97), p. 111. 'British Laboratory Glassware.' (4) Aug. 2, 1917 (vol. 99), pp. 448–9. 'The Promotion of Technical Optics.' (5) Mar. 27, 1919 (vol. 103), pp. 65–7. 'Optical Glass.'

(1) Gives abridged report of Glass Research Committee of Institute of Chemistry, giving account of research undertaken since Oct. 1914 and formulas issued to manufacturers and scientific workers. (2) Discusses serious position as regards supply of optical glass. (3) Brief note of steps taken to manufacture glass. (4) Discusses position of optical glass manufacture at outbreak of war and difficulties to be overcome in establishing the industry. (5) Describes briefly processes of manufacture, position before war and progress during war, and future prospects.

Powell, Harry J. 'Glass-making before and during the War,' in *Jl. Roy. Soc. Arts*, June 13, 1919 (vol. 67), pp. 485–95 (with discussion).

Gives instances of war developments in various glass-making firms. Criticizes unquestioning acceptance of formulae issued by Institute of Chemistry.

Rees, W. J. 'Glass, Refractory Materials, Ceramics and Building Materials,' in *Reports of Progress of Applied Chemistry*, 1917 (vol. 2), pp. 204–41; 'Glass; Refractories,' in *Ibid.*, 1918 (vol. 3), pp. 184–201; 'Glass,' and 'Ceramics and Building Materials', in *Ibid.*, 1919 (vol. 4), pp. 170–7, 189–201.

Similar to article by Audley, J. A., *vide supra.*

Rheinberg, Julius. 'Graticules', in *Trans. Optical Soc.*, May 1919 (vol. 20), pp. 277–92.

Describes researches made and development during war of manufacture of graticules, for optical munitions.

Rosenhain, Walter. 'Optical Glass,' in *Jl. Roy. Soc. Arts*, Aug. 4, 11 and 18, 1916 (vol. 64), pp. 649–58, 662–72, 677–87.

Describes nature and properties of optical glass, processes of manufacture, and problems to be solved if industry is

to be established as a commercial undertaking.

—— Glass Manufacture. 2nd ed. Constable & Co. 1919. 258 pp.

Gives an account, as far as possible non-technical, of the physical and chemical properties of glass, raw materials required and sources of supply, refractories, processes of manufacture, &c. Refers briefly and incidentally to development during war. Short bibliography.

Society of Glass Technology, Journal of. The University, Sheffield. Quarterly. First no., May 1917.

Largely technical, but contains information as to progress of the industry during war, research work undertaken, &c.

Talbot, Fred A. 'Doing without Germany. I. The British Optical Industry and how it saved us from Disaster,' in *The World's Work*, Ap. 1919 (vol. 33), pp. 447–58.

Gives a popular account of development of optical industry during war, inventions for different branches of the fighting forces, magnitude of Government orders, &c. Gives examples of increase of output.

Travers, Morris W. 'Scientific Glassware,' in *Jl. Soc. Chem. Industry*, July 31, 1918 (vol. 37), pp. 235–40(T) (with discussion).

Describes some steps taken to develop manufacture of scientific glassware during war.

—— 'Scientific Glassware,' in *Nature*, Dec. 5, 1918 (vol. 102), pp. 265–6.

Describes position at outbreak of war, development of the industry, difficulties overcome and degree of success attained.

Turner, W. E. S. 'Glass,' in *Reports of the Progress of Applied Chemistry*, 1920 (vol. 5), pp. 185–202.

Similar to articles by Audley, J. A., and Rees, W. J., *vide supra*.

Williams, A. C. 'The Design and Inspection of certain Optical Munitions of War,' in *Trans. Optical Soc.*, Jan. 1919 (vol. 20), pp. 97–120.

Describes system adopted by Government with regard to drawing up specifications for manufacturers, inspection of work, tests applied, directions in which research still needed, and degree of success attained by manufacturers.

¶ *Trade Journal:*

Optician and Photographic Trade Journal. Contd. from July 7, 1916, as *Optician and Scientific Instrument Maker*. Weekly. 2½*d.*

Contains information as to effect of war conditions on optical glass industry, progress of the industry, Government restrictions, recruiting, organization of manufacturers, &c.

b. POTTERY [1]

¶ *Official Publications:*

Privy Council. Committee for Scientific and Industrial Research. Annual Report for 1915–16. (*Vide supra*, p. 134).

Contains (pp. 21–22) brief account of effect of war on pottery industry and steps taken.

¶ *Books and Periodicals:*

Audley, J. A. 'Glass and Ceramics.'

Vide supra, p. 261.

Ceramic Society. *Transactions*, Vols. 17 and 18 (Sessions 1917–18 and 1918–19). Central School of Science & Technology, Stoke-on-Trent.

Presidential addresses contain some information as to work accomplished by makers of refractory materials during war, effect of war conditions on the industry and position as regards output (Vol. 17, Pt. I, pp. xxxv–vi and Pt. II, pp. xliii–iv). Statistics given of output of refractory manufacturers for period July 1916 to end of 1918 (Vol. 18, Pt. II, pp. xli–ii).

[1] For Industrial Council in the Pottery industry, *vide infra*, p. 439.

Hancock, W. C. 'Ceramics and Building Materials,' in *Reports of Progress of Applied Chemistry*, issued by the Soc. of Chem. Industry, 1920 (vol. 5), pp. 215–28.

A technical account of researches and developments.

Rees, W. J. 'Glass, Refractory Materials, Ceramics and Building Materials.'

Vide supra, p. 264.

℄ *Trade Journals :*

Brick and Pottery Trades Journal. Monthly. 6*d.*

Good trade notes from provinces, Scotland, &c., on state of industry and employment, technical articles, patent news, company reports, &c.

Pottery Gazette. Monthly. 1*s.*

Useful publication. Good notes on pottery, glass and clay industries, technical articles, reports of lectures, patent news, company reports, &c.

6. IRON AND STEEL TRADES[1]

℄ *Official Publications :*

Board of Trade. Iron and Steel Trades, position of, after the war, Report of Departmental Committee on. 1918, Cd. 9071, vol. 13. 50 pp.

Gives brief historical survey and summary of position in various branches of the industry before war. No information as to Government control during war. Makes recommendations for future.

—— *Bd. of Trade Jl.*, Feb. 21, 1918 (vol. 100), pp. 209–11. 'Procedure for obtaining Steel.'

Explains system of control of rolling instituted by Admiralty in conjunction with Ministry of Munitions.

—— *Ibid.*, July 18, 1918 (vol. 101), pp. 80–82. 'Admiralty Contracts. Procedure for ordering Steel Materials.'

Describes procedure.

—— *Ibid.*, Aug. 15, 1918 (vol. 101), pp. 207–8. 'Iron and Steel Production.'

Describes measures taken by Ministry of Munitions to control manufacture of, and dealings in, iron and steel.

℄ *Books and Periodicals :*

Birkett, M. S. 'The Iron and Steel Trades during the War,' in *Jl. Roy. Stat. Soc.*, May 1920 (vol. 83), pp. 1–50 (with discussion).

Useful account, based partly on unpublished official figures. Describes measures taken for conserving and increasing steel resources, allocation of steel, control of prices and steps taken to restore industry to normal conditions after Armistice. Gives statistics of production of shell steel, imports of munitions, numbers (men and women) employed in iron and steel industries at various dates from July 1914 to Jan. 1920, summary of balance sheets of iron and steel firms, &c. Includes account of iron and steel industries in France and U. S. A. during war.

Boswell, P. G. H. A Memoir on British Resources of Refractory Sands for Furnace and Foundry Purposes. Pt. I. Published at instruction of Ministry of Munitions by Imperial College of Science and Technology and University of Liverpool. Taylor & Francis. 1918. xii + 246 pp.

Largely technical. Describes composition of sands, their use in production of iron and steel, effect of war on imports and development of British resources, &c.

Gray, Andrew. Presidential Address in *Jl. West of Scot. Iron and Steel Inst.*, Oct. 1920 (vol. 28), pp. 3–8.

Contains some account of iron and steel production in Scotland during war, growth

[1] *Vide* also ENGINEERING, § J, 3, *supra*, pp. 231–54, and IRON, § K, 3, *infra*, pp. 317–18.

of the industry, post-war conditions and future outlook.

Hatch, F. H. The Iron and Steel Industry of the United Kingdom under War Conditions: a Record of the work of the Iron and Steel Production Department of the Ministry of Munitions. Privately printed for Sir John Hunter, by Harrison & Sons. 1919. xii + 167 pp.

Useful publication. Describes the organization of Iron and Steel Production Department, steps taken to increase home production of ironstone, &c., arrangements with foreign countries for supply of ore, control of steel and materials, fixing of prices and system of subsidies, alteration of processes, extension of plants, difficulties with regard to labour supply and transport, &c., &c. Gives statistics (partly from Home Office returns, partly from returns to Ministry of Munitions) of production during the war of steel, pig-iron, iron ores, refractory materials, &c.

Iron and Steel Institute, Journal of. Twice yearly. E. & F. N. Spon, London. Spon & Chamberlain, New York.

Almost entirely technical articles. Gives numerous abstracts of articles in periodicals and bibliographies.

Iron, Steel and Allied Trades Federation. Statistical Reports for 1915, &c. I.S.A.T.F., Statistical Bureau, Victoria St.

Quote official statistics of production, imports, &c.; also, from other sources, statistics of production of pig-iron, iron and steel manufactures and galvanized sheets and tin plates, number of blast furnaces and of electric furnaces, pig-iron prices, prices of steel and wages in manufactured iron and steel trade of North of England, &c.

Ironmonger Metal Market Year Book for 1915, &c.

Useful statistics. Prices, usually at London, daily, weekly or monthly, of non-ferrous metals, pig-iron, steel-billets, steel plates, tin plates, &c., &c. Statistics of imports, production, &c., in U.K. and foreign countries. Notes of events affecting metal industries.

M'Cosh, W. W. 'Some Notes on the handling of Raw Materials for Iron and Steel Works,' in *Jl. West of Scot. Iron and Steel Inst.*, Jan. 1918 (vol. 26), pp. 68–78 (with discussion).

Describes plant and installations introduced into Scottish iron and steel works and unloading ports for iron and steel, during war, with reference to their economic working. Mainly technical.

Quin's Metal Handbook and Statistics for 1915, &c. Metal Information Bureau.

Gives statistics for previous year of prices, usually at London (daily, monthly, &c.), output, exports and imports, stocks, &c., in U.K. and abroad, of non-ferrous metals, iron and steel. Occasional notes of events affecting metal industries.

Ryland's Coal, Iron, Steel, Tinplate, Metal, Engineering and Allied Trades Directory. *Iron and Coal Trades Review.* 13th, 14th, 15th eds. (1915, 1918, 1920).

Contain lists of firms. Also special iron and steel section, giving names of firms in the various branches of manufacture, with particulars as to number of furnaces, &c.

West of Scotland Iron and Steel Institute, Journal of. Eight numbers yearly. Fraser, Asher & Co., Glasgow.

Mainly technical. *Vide* also presidential address by Gray, Andrew, and article by M'Cosh, W. W., *supra.*

¶ *Trade Journals:*

Compendium. (*Vide supra*, p. 107.)

Gives monthly prices of pig-iron, manufactured iron and steel, &c., number of furnaces alight, &c. Good yearly review.

Glasgow Herald. Annual Supplements on Shipbuilding, Engineering and Commerce. (*Vide supra*, p. 252.)

Contain accounts of the Scottish iron

and steel trade during the year, prices, state of employment, wages, &c.

Iron and Coal Trades Review. Weekly. 8*d.*

Useful publication. Contains much information as to effect of war conditions on coal and iron and steel industries (state of employment, labour supply, disputes and wages, transport difficulties, &c.), and discussions on Government control and its effects. Weekly reports of state of markets and weekly prices in different districts (coal, iron, steel, metals, tin plates). Fairly full review annually, in first or last issue of the year, of coal trade and iron and steel trades.

Ironmonger. Weekly. 6*d.*

Gives company reports, metal and hardware prices, reports of legal decisions, notes of inventions and developments, &c.

Metal Bulletin, incorporating Quin's Metal Market Letters. From May 10, 1915 (previously published as *Quin's Metal Market Letters*). Bi-weekly. £3 3*s.* p. a.

Reports of state of markets, supplies, prices, &c., in non-ferrous metal and iron and steel trades. In later numbers frequent leaders and reports of meetings of merchants criticizing Government control.

Times. Engineering Supplements. (*Vide supra*, p. 242.)

Yearly review in January contains articles on progress in iron and steel industries.

7. LEATHER AND LEATHER MANUFACTURE

¶ *Official Publications:*

Manuals of Emergency Legislation. War Materials Supplies Manual. 1st to 5th editions. (*Vide supra*, p. 84.)

Contain all Orders, notices, &c., *re* leather and hides in force at dates mentioned. For a few earlier Orders *vide* Defence of the Realm Manuals, Feb. 28, and May 31, 1917 (*supra*, p. 84).

Board of Trade. Profiteering Act. Standard Boot and Shoe scheme, Report on, by Standing Committee on Trusts. 1920, Cmd. 592. 4 pp.

Refers to War Office war-time Standard Boot scheme and examines proposal of Incorporated Federated Associations of Boot and Shoe Manufacturers to re-introduce the scheme.

—— *Bd. of Trade Jl*, May 9, 1918 (vol. 100), pp. 561–3. 'The Chrome-Tanning Industry.'

Describes position before war and discusses possibility of permanently developing the industry in England.

—— *Ibid.*, Aug. 8, 1918 (vol. 101), pp. 180–2. 'The Control of Leather.'

Describes steps taken by Government to meet military and civil demand for leather, economies effected by Government trading, &c.

—— *Ibid.*, Feb. 6, 1919 (vol. 102), pp. 167–8. 'The Leather Council: Transitional Control.'

Gives an account of formation of Leather Council and reports of its first two meetings.

—— *Ibid.*, Feb. 27, Mar. 20, Ap. 17, May 15 and June 19, 1919 (vol. 102), pp. 269–70, 376–7, 516, 636, 767–8.

Reports of further meetings of Leather Council.

Ministry of Munitions. Trading Accounts. 1920, Cmd. 788. (*Vide supra*, p. 89.)

Contains (pp. 14–18) Memorandum on Hides, Leather and Tanning Materials, describing, in continuation of Cd. 8447 (*vide* under WAR OFFICE, *infra*), the steps taken by Government with regard to provision of raw materials and control of their utilization, working of war-time boot scheme, steps taken since Armistice, &c. Gives (pp. 90–104) trading accounts from commencement of operations to March 31, 1919.

War Office. War Office Contracts, Memorandum on, June

1917. 1917–18, Cd. 8447, Vol. 19. (*Vide supra*, p. 92.)

Contains (pp. 4–5, 17–20) a useful account of methods adopted by War Office Contracts Department for control of leather.

¶ *Books and Periodicals :*

Lamb, M. C. 'The Utilisation of Condemned Army boots,' in *Jl. Soc. Chem. Industry*, Sep. 29, 1917 (vol. 36), pp. 986–8.

Gives an account of experiments made in utilization of worn-out Army boots (used for road-making, manure, leather board, &c.).

Ledgard, Sir Henry. 'The Indian Hide and Leather Industry,' in *Jl. Roy. Soc. Arts*, Mar. 8, 1918 (vol. 66), pp. 274–85 (with discussion).

Describes position of Indian tanning industry before war, its development during war, and steps taken to free it from German domination.

Rogers, Will. 'The War and Boots,' in *E. W.*, Dec. 1914 (vol. 24), pp. 226–33.

Short article describing amount of Government orders, rise in prices and effect on civilian trade.

Thompson, F. C. 'Leather and Glue,' in *Reports of Progress of Applied Chemistry*, issued by Soc. of Chem. Industry, 1918 (vol. 3), pp. 321–41 ; 1919 (vol. 4), pp. 347–64 ; 1920 (vol. 5), pp. 351–69.

Describes researches made in leather industry during the year. Mainly technical. (*Vide* also articles by Wood, Joseph T., *infra.*)

Wickenden, Arthur F. 'The Use of Textile Belting,' in *System*, Oct. 1918 (vol. 34), pp. 253–5.

Discusses advantages and disadvantages of textile belting, used as substitute for leather belting owing to scarcity of leather.

Wood, Joseph T. 'Leather and Glue,' in *Reports of Progress of Applied Chemistry*, 1916 (vol. 1), pp. 226–42 ; 1917 (vol. 2), pp. 353–74.

Similar to articles by Thompson, F. C., *supra.*

¶ *Trade Journals :*

Boot and Shoe Trades Journal. Weekly. 2*d.*

News from trade centres, Company news, market reports, lists of new inventions, retailers' notes and news, accounts of new methods adopted by boot-making firms, etc. Critical of Government control.

Federation of Boot Manufacturers, Journal of. Monthly. (1st no., Nov. 1919).

Federation news and accounts of meetings. Gives shipping terms and allocations of Government leather. Describes efforts of Federation to employ disabled men.

Leather Trades Review. Weekly. 10*s.* p. a.

Organ of the Hide, Tanning, Leather, Wool and Kindred Trades. Leading articles on trade conditions at home and abroad, notes from various centres of the industry, tables of comparative prices of various kinds of native leather, meetings of trade associations, articles on processes.

Saddlery and Harness. Wallsall. Weekly. 12*s.* 6*d.* p. a.

Lists of current market prices of leather, jute and other materials used in harness trade, news of saddlery trade from provincial towns, records of new patents.

Shoe and Leather Record. Weekly. 6*d.*

News from various trade centres, retailers' notes, &c. December issues contain useful general review of leather and hide trade for past year.

Shoe, Leather and Allied Trades News. Weekly. 1*d.* (1st no., Ap. 16, 1916).

Useful publication, especially for London leather and hide report. Also contains news from trade centres, foremen and managers' notes, retail topics, and legal news affecting shoe and leather trade. Critical of Government control.

8. PAPER

¶ *Official Publications :*

Manuals of Emergency Legislation. Defence of the Realm Manual, 4th and 5th editions. War Materials Supplies Manual, 1st to 5th editions. (*Vide supra*, p. 84.)

Contain Proclamations, Orders, &c., *re* Paper.

Board of Trade. *Bd. of Trade Jl.*, Ap. 11, 1918 (vol. 100), pp. 430–2. 'The Control of Paper : Effect of Restrictions.'

Gives an account of work of Royal Commission on Paper and Paper Controller, restriction of imports, working of system of licences, priority scheme, control of waste paper, &c.

—— *Ibid.*, May 15, 1919 (vol. 102), pp. 633–5. 'Paper Industry Inquiry : Interim Report of the Committee.'

Gives text of Interim Report (not published) of Committee appointed to consider conditions prevailing in the paper industry. Report refers to difficulties experienced by the industry during war and discusses conditions prevailing since Armistice (lack of orders and consequent unemployment, effect of removal of restrictions, &c.).

¶ *Books and Periodicals :*

Briggs, J. F. 'Fibres, Textiles, Cellulose and Paper,' in *Reports of Progress of Applied Chemistry*, issued by the Soc. of Chem. Industry, 1917 (vol. 2), pp. 126–58, and 1918 (vol. 3), pp. 115–46.

Describes researches and progress made in the paper industry, &c., owing to war conditions (experimenting with substitutes, utilization of waste paper). Mainly technical. (*Vide* also similar articles by Napper, S. S., *infra*.)

Haynes, Talbot. (1) 'Turning Waste into Money : The Uses of To-day's Scrap-heap,' in *System*, Oct. 1917 (vol. 32), pp. 223–9. (2) 'Making Profit from Waste Paper,' in *Ibid.*, Nov. 1917, pp. 301–5.

(1) Describes (pp. 223–7) steps taken to utilize waste paper, Government control of trading, &c. (2) Describes arrangements made in certain towns for collection of waste paper.

Napper, S. S. 'Fibres, Textiles, Cellulose and Paper,' in *Reports of Progress of Applied Chemistry*, 1919 (vol. 4), pp. 114–36, and 1920 (vol. 5), pp. 124–49.

Similar to articles by Briggs, J. F., *supra*.

Phillips, S. Charles. 'Paper Supplies as affected by the War,' in *Jl. Roy. Soc. Arts*, Feb. 18, 1916 (vol. 64), pp. 271–87.

Explains causes of panic and high prices at beginning of the war and of subsequent reaction and low prices. Discusses imports and exports of paper and paper-making materials, rise in price of different kinds of paper, freights, and Government's decision *re* restriction of imports.

Society of Chemical Industry. *Journal of the Society*. May 15, 1918 (vol. 37), pp. 167–8(R). 'Wood-pulp and Paper-making Materials.'

Gives summary of lecture by R. W. Sindall at London School of Economics. Contains estimate of production of paper in U.K. 1914 and 1917 and discusses sources and quantities of supply of wood pulp.

¶ *Trade Journals :*

Paper Box and Bag Maker and Bookbinders' Journal. Monthly. 1*s*.

Accounts of meetings of Paper Box Manufacturers' Association, meetings of Trade Board and prosecutions under Trade Boards Act, discussions of Government restrictions, &c. Special annual number reviewing trade for past year.

Paper Maker and British Paper Trade Journal. Monthly. 1*s.* 6*d.*

News of paper trade throughout the world. Gives regulations of Paper Commission and Paper Controller and discusses their actions. Financial returns of Paper Companies, &c.

Paper Makers' Monthly Journal. Monthly. 6*d.*

Very useful publication. Leading articles give war history of paper trade. Contains technical articles, Law Court cases affecting the trade, bibliography of paper trade literature. Statistics of imports, &c. (including total imports of wood pulp into U.K. specially compiled for the Wood Pulp Association). Discusses at length actions of Paper Commission. The issue for Jan. 1918 gives a list of the regulations of Paper Commission for years 1916–17.

World's Paper Trade Review. Weekly. 6*d.*

Contains reports of Company meetings, dividends, &c.; lists of current prices of paper-making materials. Discusses critically Government's restrictions of imports.

9. RUBBER

¶ *Books and Periodicals:*

Financier Rubber Share Handbook. *The Financier and Bullionist.* 16th ed. 1919. xvi + 938 pp.

Gives lists of Rubber Companies, with capital, profits, directors, acreage, &c., and annual production from 1914–19, and highest and lowest prices up to 1918.

Porritt, B. D. 'The Rubber Industry and the War,' in *Jl. Soc. Chem. Industry*, June 15, 1920 (vol. 39), pp. 195–7(R).

An account of the position of the industry during the war (supply of rubber, new products manufactured for war purposes, difficulties encountered, e.g. in supply of auxiliary materials, &c.)

Rubber Producing Companies, 1920. Mincing Lane Tea and Rubber Share Brokers' Association. 1920. 687 + viii pp.

Short preface (1 p.) giving causes of recent set-back in the rubber trade. Alphabetical list of Rubber Companies, giving directors, capital, acreage, &c., and production, 1914–19.

¶ *Trade Journals:*

India Rubber Journal. Weekly. 4*d.*

The Organ of the Rubber, Gutta Percha, Asbestos and Electrical Industries. Notes on progress of rubber trade in Midlands and Lancashire and trade with foreign countries and colonies. Technical articles and descriptions of new inventions. Company news. Accounts of strikes in rubber industry. Criticism of Government control.

India Rubber World. Ed. by H. C. Pearson. India Rubber Publishing Co., New York. Monthly.

A very useful journal containing economic and technical articles on American rubber production, chemistry, trade, prices, &c. Contains also some information on rubber in U.K. (state of trade, restrictions, progress of manufacture, prices, supply, &c.) Review of crude market statistics, including London and Liverpool.

World's Rubber Position. W. H. Rickinson & Son. Monthly. 4*s.*

A compilation of statistical tables giving, *inter alia*, for U.K., imports and exports of rubber and gutta percha, rubber manufactures, waste and reclaimed rubber; statistics of world production of rubber, area under plantation, output, price fluctuations, &c.

10. TEXTILES[1]

a. GENERAL

¶ *Official Publications :*

Manuals of Emergency Legislation. War Materials Supplies Manual. 1st to 5th eds. (*Vide supra*, p. 84).

Contain all Orders, notices, &c., *re* Cotton, Flax, Hemp, Jute, Linen, Wool and Worsted, in force at dates mentioned. (For earlier Proclamations, Orders, &c., temporary or since expired, *vide*, as regards Cotton, Manual of Emergency Legislation, Suppts., Nos. 3 and 4, Ap. 30 and Aug. 31, 1915; and, as regards Flax, &c., Defence of the Realm Manuals, July 28, 1916, and subsequent issues (*supra*, pp. 83–4).

Board of Trade. Textile Trades, position of, after the war, Report of Departmental Committee on. 1918, Cd. 9070, vol. 13. 130 pp.

Gives a general description of the various textile industries (cotton, wool, silk, linen, jute, lace, hosiery and gloves), before war (organization of the industry, exports and imports, labour questions, foreign competition, &c.) and account of the position in autumn of 1916 as regards sources of supply, statistics of consumption, &c. Makes recommendations with regard to extension of Government assistance, discontinuance of Government control after war, &c.

¶ *Books and Periodicals :*

Chapman, Sydney J., and **Kemp, David.** 'The War and the Textile Industries,' in *Jl. Roy. Stat. Soc.*, Mar. 1915 (vol. 78), pp. 157–237 (with discussion).

Deals mainly with cotton. Discusses state of exports, employment, &c., and how far conditions are due to war and how far to trade depression; describes effect of war on exchanges, credit, &c., closing and re-opening of cotton market, effect on demand, &c. Brief review of position as regards other textiles.

Textile Institute, Journal of. Manchester. Two, three or four times a year (from Ap. 1918 monthly).

Contains notes and papers on matters affecting the various branches of the textile industry, e.g. effect of the war, labour questions, Government control, &c., and especially industrial research. With bibliographies and abstracts of literature.

Watson, William. 'The Textile Industry after the War,' in *Proc. Roy. Phil. Soc. Glasgow*, 1917–18 (vol. 49), pp. 72–88.

Mainly a discussion of future prospects. Touches briefly on some effects of the war.

Wickenden, Arthur F. 'The Use of Textile Belting.'

Vide supra, p. 273.

¶ *Trade Journals :*

Textile Mercury. Manchester. Weekly. 1*d.*

Deals especially with cotton and wool. Contains information with regard to state of trade, Government contracts, labour questions, &c. Frequent articles discussing working of Government control.

Textile Recorder. Manchester. Monthly. 2*s.*

Deals mainly with wool. Largely technical, but also contains information with regard to state of trade, prices, labour questions, &c. Certain amount of criticism and comments on Government control.

b. COTTON[2]

¶ *Act of Parliament :*

Cotton Associations (Emergency Action) Act, 1915. 5 & 6 Geo. V. c. 69. 1 p.

Confirms postponement of contracts by Cotton Associations.

¶ *Official Publications :*

Board of Trade. Empire Cotton

[1] *Vide* also CHEMICALS: DYES, § J, 1, c, *supra*, pp. 225–30, and CLOTHING TRADES, § J, 2, *supra*, pp. 231–2.

[2] *Vide* also TEXTILES: GENERAL, *supra*.

Growing Committee, Report of. 1920, Cmd. 523. 74 pp.

Discusses shortage of cotton supplies, and surveys cotton-growing areas of the Empire; recommends Government assistance. No information as to Government control during war.

—— Profiteering Acts. (1) Sewing Cotton, alleged existence of a Combine among Manufacturers of, Findings of a Committee on. 1920, Cmd. 563. 8 pp. (2) Findings of a sub-committee appointed to inquire further into alleged existence of a Combine. 1920, Cmd. 930. 7 pp.

(1) Discusses extent to which a combine exists and its results. Gives figures of profits and increased costs of production of Messrs. Coats, 1913–19, and discusses how far increase of price is justified. (2) Discusses statements made by the firm with regard to findings of original Committee, and the justifiableness of recent further increase of price.

—— *Bd. of Trade Jl.*, Feb. 14, 1918 (vol. 100), pp. 176–8. 'Raw Cotton Supplies: Restricting the output of Mills.'

Gives an account of work of Cotton Control Board.

—— *Ibid.*, Oct. 31, 1918 (vol. 101), pp. 543–5. 'The Cotton Trade: Report of Inquiry Tribunal.

Gives text of report of Tribunal appointed to inquire into dispute between Cotton Control Board and Amalgamated Association of Operative Cotton Spinners.

—— *Ibid.*, Feb. 6, 1919 (vol. 102), pp. 162–3. 'The Cotton Trade: Restrictions on machinery withdrawn.'

Short article explaining new position since withdrawal of restrictions on running machinery.

Ministry of Munitions. Trading Accounts. 1920, Cmd. 788. (*Vide supra*, p. 89.)

Contains (p. 22) short memorandum, describing steps taken to secure supplies of certain classes of cotton goods required in last stages of the war and course of prices since removal of control, and (pp. 125–6) Appropriation and Trading Accounts, 1918–19, and Balance Sheet.

¶ *Books and Periodicals:*

Barker, Ernest. 'Industrial Councils and Industrial Harmony.' *Vide infra*, p. 437.

Bigwood, George. Cotton. Staple Trades and Industries, Vol. 2. Ed. by Gordon D. Knox. Constable & Co. 1918. 204 pp.

A description of the industry before war. Appx. III, pp. 188–98, gives brief account of cotton control scheme.

Chapman, Sydney J. The War and the Cotton Trade. Oxford Pamphlets. Humphrey Milford. 1915. 23 pp.

Discusses effect of war on cotton trade.

Cotton Spinners' and Manufacturers' Directory for Lancashire, 1915, &c. J. Worrall, Oldham.

Contain tables showing increase or decrease in number of firms, spindles and looms during the year, with totals and summaries for a series of years.

Cotton Year Book, 1915, &c. *Textile Mercury*, Manchester.

Contain brief reviews of cotton industry for the year, information as to raw cotton supplies, lists of Associations of employers and operatives, &c.

Greenwood, Geo. A. 'Self Government in Industry.' (*Vide infra*, p. 291.)

Pp. 30–32. Deals with Cotton Control Board. Describes its operations and discusses its success.

Hutton, J. Arthur. 'The Effects of the War on Cotton-growing in the British Empire,' in *Jl. Roy. Soc. Arts*, Jan. 28, 1916 (vol. 64), pp. 206–23 (with discussion).

Describes formation of British Cotton Growing Association, its work before war

and action taken by it on outbreak of war in financing crops, and discusses effects of war on cotton growing in British Empire.

Macara, Sir Chas. W. .Social and Industrial Reform. Sherratt & Hughes, Manchester. 7th ed. 1919. 332 pp.

Includes articles (pp. 75–92, 191–208 and 249–50) on the cotton industry. Discusses success of Cotton Control Board, profits made during war, &c.

Newton, Arthur P. (Ed.). The Staple Trades of the Empire. J. M. Dent & Sons. 1918. 184 pp.

Pp. 82–117, 'The Cotton Resources of the British Empire,' by John Aiton Todd. A lecture delivered at London School of Economics. Describes course of production and prices since outbreak of war and discusses prospects of development of cotton-growing. Statistics of world's cotton crops, consumption, acreage, yield and prices, &c., up to 1918.

Todd, John Aiton. The World's Cotton Crop. A. & C. Black. 1915. 460 pp.

Chap. XX (pp. 366–87), 'The Effects of the War', describes position as regards crops on outbreak of war and effect on cotton-growing areas of measures taken.

—— 'The World's Cotton Supply and India's Share in it,' in *Jl. Roy. Soc. Arts*, Dec. 29, 1916 (vol. 65), pp. 110–30 (with discussion).

Discusses course of prices since war and effect on acreage planted, dangers of relying only on American crop, sources of supply of different grades, possibilities of development especially in India. Statistics of world's cotton crops, consumption, acreage, yield and prices, &c., up to 1916.

—— 'The Cotton Resources of the British Empire.' *Vide* NEWTON, ARTHUR P., *supra*.

Watts, John. The Facts of the Cotton Famine. Simpkin, Marshall & Co., London. A. Ireland & Co., Manchester. 1866. xii + 472 pp.

Gives an exhaustive account of the distress in Lancashire during American Civil War and measures of relief then adopted. Useful as offering both a parallel and contrast with difficulties of the cotton trade during European War.

¶ *Trade Journals :*

Cotton. Manchester. Weekly. 9*d*.

The official journal of the Manchester Cotton Association. Mainly statistics (weekly movement of cotton and daily prices). Weekly notes on raw cotton situation and Manchester market report.

Cotton Factory Times. Manchester. Weekly. 1*d*.

The organ of the textile workers of Lancashire and adjoining counties. Contains information as to state of trade, labour questions, operations of Cotton Control Board, &c.

Cotton Gazette. Liverpool. Weekly. 63*s*. p. a.

Mainly statistics (weekly movement of cotton, daily prices, &c.). Brief notes on general conditions of trade. Some criticism of actions of Cotton Control Board.

Economist. Weekly.

Has good quarterly articles on the Lancashire cotton trade, reviewing general state of trade, supply, prices, labour conditions, &c.

Yorkshire Observer. Annual Trade Supplement. (*Vide infra*, p. 293).

Contains review (about 4 cols.) of Lancashire cotton trade for past year. Statistics of crops, prices of cotton, yarn and cloth, number of spindles and looms.

c. FLAX, HEMP AND JUTE[1]

¶ *Acts of Parliament :*

The Flax Companies (Financial Assistance) Act, 1918. 8 & 9 Geo. V. c. 24. 1 p.

¶ *Official Publications :*

Board of Agriculture. Flax Production Branch, Annual Report of, for 1918. 1919, Cmd. 216. 19 pp.

Describes measures taken by the Branch during this (its first) year to encourage production of flax.

Board of Trade. Empire Flax Growing Committee. Interim Report on the general situation and immediate prospects of supply in Ap. 1919. 1919, Cmd. 281. 11 pp.

Discusses position of the industry before war, steps taken during war to increase production and possibility of flax-growing in the Empire.

—— *Ibid.* Report on Substitutes for Flax as at Ap. 27, 1920. 1920, Cmd. 762. 6 pp.

Discusses possibilities of various substitutes.

—— *Bd. of Trade Jl.*, June 27, 1918 (vol. 100), pp. 802–4. 'The Supply of Flax : Control and Development.'

Describes steps taken to control supply, production and distribution of flax.

—— *Ibid.*, July 18, 1918 (vol. 101), pp. 79–80. 'Jute and Hemp : The Systems of Control.'

Describes steps taken to control supply, distribution, &c.

Commissions, Royal. Wheat Supplies, Royal Commission on. 1st Report. 1921, Cmd. 1544. (*Vide supra*, p. 187.)

Contains (pp. 65–66) a brief account of arrangements made by the Commission for purchase and importation into Argentine of jute cloth and bags for bagging cereals, and control of distribution.

Ireland. Dept. of Agric. and Tech. Instruction. Annual Reports for 1916–17 to 1918–19. (*Vide supra*, p. 142).

Contain short accounts of arrangements made for supply of flax-seed, acreage under flax, administration of Flax Seed Orders, &c.

—— *Ibid.* Charges for Scutching Flax and Disposal of Tow, Departmental Committee on. Report and Minutes of Evidence and Index. 1918, Cd. 9029, 9207, vol. 9. 7 pp., vii + 79 pp.

Describes system in force and discusses question of fixing maximum price for scutching. Summaries only of evidence given.

—— *Ibid.* Charges for Scutching Flax and Tow, Fixing of, Report of Departmental Committee on. 1918, Cd. 9196, vol. 9. 6 pp.

Inquires into charges for scutching, especially with reference to effect of Scutchmills (Ireland) Order 1918, and award *re* terms of employment of scutch-mill workers. Recommends what charges should be fixed.

—— *Ibid. Journal of the Department.* (*Vide supra*, p. 145).

Contains, *passim*, references to the position of the flax industry (prices of flax, supply of seed, acreage under flax, experiments in flax-growing, &c.).

Ministry of Munitions. Trading Accounts. 1920, Cmd. 788. (*Vide supra*, p. 89).

Contains (pp. 18–22) memoranda on flax, jute and hemp, describing steps taken by Government with regard to purchase and distribution, &c, and (pp. 105–24) trading accounts up to March 31, 1919.

Scotland. *Scottish Jl. Agric.*,

[1] *Vide* also TEXTILES : GENERAL, § J, 10, a, *supra*, pp. 279–80.

Oct. 1918 (vol. 1), pp. 462–5. 'Flax Production in Scotland.'

Describes arrangements made for sowing and harvesting crop in 1918. *Vide* also article by YOUNG, THOS., *infra*, p. 288.

Treasury. Vote of Credit, Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Contains (pp. 13, 46–52) brief account of operations of Board of Agriculture with regard to flax production, trading and profit and loss accounts to March 31, 1919 and balance sheet, and (pp. 71, 79–80) trading accounts and balance sheets of Ministry of Munitions with regard to flax supplies.

War Office. War Office Contracts, Memorandum on. 1917–18, Cd. 8447, vol. 19. (*Vide supra*, p. 92.)

Contains (pp. 5, 20–22) an account of methods adopted by War Office Contracts Department for control of jute, flax and hemp.

¶ *Books and Periodicals :*

Boase, W. Norman. 'Flax : Cultivation, Preparation, Spinning, Weaving,' in *Jl. Roy. Soc. Arts.*, Ap. 2, 1919 (vol. 67), pp. 369–82 (with discussion).

Gives an account of development of flax-growing and describes method of cultivation, &c. Touches briefly on position during war and present position of linen industry. Appreciative reference made to work of Flax Control Board.

Bradbury, F. 'Recent Developments in the Flax Industry of Ireland,' in *Jl. Textile Inst.*, July 1918 (vol. 9), pp. 98–100.

Describes steps taken to increase flax production in Ireland, difficulties experienced and progress made.

Carter, Herbert R. 'Flax : its Cultivation and Preparation for Market.' Technical Handbooks, No. 8. Bale, Sons, & Danielsson. 1918. 84 pp.

Describes processes. Appx. (pp. 45–6) refers briefly to meeting of Irish linen trade in 1918 and scheme for increased production.

Young, Thos. 'Flax Cultivation and Manipulation in Fife,' in *Scottish Jl. Agric.*, Jan. 1920 (vol. 3), pp. 35–40.

Describes arrangements made for growing flax, and manipulation of crop and results in 1918 and 1919.

—— 'Flax-Growing in Scotland,' in *Trans. Highland and Agric. Soc. Scotland*, 1920 (vol. 32), pp. 79–100.

Gives an account of flax-growing in Fifeshire. Describes cultivation methods, results, and manipulation of crop in Government factories.

¶ *Trade Journals :*

Dundee Prices Current and Trade Report. Dundee. Weekly. £2 10*s.* p. a.

Weekly prices of jute, flax, and hemp, and reports on state of the market. Some information with regard to Government contracts and control and wages questions.

Linen Trade Circular. Belfast. Weekly. £1 1*s.* p. a.

Weekly prices of yarns and brief reports of markets. Occasional reports on Government control.

d. SILK [1]

¶ *Books and Periodicals :*

Warner, Frank. 'Silk and the War,' in *Jl. Textile Inst.*, Nov. 1914 (vol. 5), pp. 489–95 (with discussion).

Discusses early effects of war on silk industry and reduction in demand, difficulties in obtaining supply of raw silk, shortage of dyestuffs, introduction of new lines, &c.

Wilson, L. P. 'The Artificial

[1] *Vide* also TEXTILES : GENERAL, § J, 10, a, *supra*, pp. 279–80.

Silk Industry,' in *Jl. Soc. Chem. Ind.*, Aug. 16, 1920 (vol. 39), pp. 266–8 (R).

Gives an account of development of artificial silk industry in Great Britain and on Continent since beginning of war. Describes processes.

e. WOOL AND WORSTED (INCLUDING HOSIERY) [1]

¶ *Official Publications :*

Board of Trade. Profiteering Act, 1919. Wool, Tops, and Yarns, cost of production and distribution of, at all stages, and profits arising therefrom, Findings by a Committee on. 1920, Cmd. 535. 8 pp.

Gives brief account of Government control. Discusses post-control, rise in prices and causes, standard clothing scheme, &c. Tables giving prices in 1919 compared with pre-war prices.

—— *Ibid.* Worsted Yarns, Findings by Committee on. 1920, Cmd. 550. 6 pp.

Discusses rise in prices since cessation of control. Gives figures of prices and profits (July to Oct. 1919) compared with prices and profits on War Office basis.

—— *Ibid.* Yorkshire Tweed Cloths, prices, costs and profits of manufacture of, Report on, by a sub-committee of Standing Committee on Investigation of Prices. 1920, Cmd. 858. 14 pp.

Gives brief description of organization of the woollen industry. Discusses costs, prices and profits for 1918–19 compared with pre-war period.

—— *Bd. of Trade Jl.*, July 4, 1918 (vol. 101), pp. 6–8. 'The Control of Wool.'

Describes steps taken to control supply, distribution and manufacture of wool, standardizing of fabrics and clothing, system of costing, &c.

—— *Ibid.*, Nov. 28, 1918 (vol. 101); Jan. 2, 16, 30, Feb. 27, Mar. 27, May 8, June 19, 1919 (vol. 102); July 24, Sep. 11, 1919 (vol. 103). Reports of Meetings of the Wool Council.

Ministry of Munitions. Trading Accounts. 1920, Cmd. 788. (*Vide supra*, p. 89).

Contains (pp. 10–14) memorandum on wool, describing methods adopted for purchase and distribution, course of prices, steps taken after Armistice, &c., and (pp. 28–89) trading accounts from commencement of operations to March 31, 1919.

War Office. War Office Contracts, Memorandum on. 1917–18, Cd. 8447, vol. 19. (*Vide supra*, p. 92.)

Contains (pp. 4, 13–17) useful account of methods adopted by War Office Contracts Department for control of wool.

¶ *Books and Periodicals :*

Bradford Chamber of Commerce. Statistics relating to Worsted and Woollen Trade of U.K. Published annually. Wm. Byles & Sons, Bradford (Printer).

Contain statistics of imports, exports and prices of wool and woollen manufactures. Give estimate of wool grown in U.K. Volume for 1914 contains statistics of labour employed, number of machines, looms, &c., in use in Yorkshire textile factories in 1918.

Carter, G. R. 'Clothing the Allies' Armies,' in *Econ. Jl.*, Mar. 1915 (vol. 24), pp. 97–103.

Brief account of conditions in woollen and worsted industries in early days of war and steps taken by Government to increase output.

Central and Associated Chambers of Agriculture, Journal of. July 1916 (N.S. vol. 5), pp. 100–5, 114–5, 116–25; Nov. 1918 (vol. 7), p. 123.

Reports of action taken with regard to

[1] *Vide* also TEXTILES : GENERAL, § J, 10, a, *supra*, pp. 279–80.

Order prohibiting sale of 1916 clip, criticism of Government methods, resolutions passed by local agricultural societies, deputation to representatives of War Office and Board of Agriculture; discussion on conditions of purchase of 1919 clip, &c.

Fabian Research Department Monthly Circular, Feb. 25, 1918, pp. 38–9. 'Some Profits in the Worsted Textile Trade,' contributed by an Official of a woollen trade union. Labour Research Dept., 34 Eccleston Square.

Gives some figures showing profits of a top-maker, and of spinners in civilian trade.

Farmer and Stockbreeder Year Book, 1920, pp. 132–4. 'A Wonderful Wool Year,' by 'S'. *Farmer and Stockbreeder.*

Discusses course of prices of wool in 1919 after removal of Government control and reasons for increase.

Greenwood, Geo. A. 'Self Government in Industry: A notable Experiment of the War: The Work and Promise of the Wool and Cotton Control Boards,' in *The World's Work,* Dec. 1918 (vol. 33), pp. 28–32.

Describes working of Government control and discusses results.

Hitchcock, Eldred F. 'The Importance of Imperial Wool.' *Vide* NEWTON, ARTHUR P., *infra.*

Jackson, Chas. Kains-. 'The Wool Trade in 1919,' in *Jl. Roy. Agric. Soc.,* 1919 (vol. 80), pp. 224–7.

Criticizes Government action during war and since, as affecting farmers.

'Jason'. Past and Future. Chatto & Windus. 1918. 192 pp.

Chap. X, pp. 125–39, 'A Great Experiment', describes measures taken for control of wool, attitude of the trade, &c.

Macgregor, D. H. 'War and Supplies in reference to Wool,' in *P. Q.,* Mar. 1916 (No. 7), pp. 54–84.

Useful article, discussing position as regards normal supplies and supplies actually received, restrictions on trade, rise in prices, labour questions, financial arrangements, &c.

Meek, F. H. 'The Demand for Wool,' in *Scottish Farmer Album* for 1920, pp. 137–41.

Describes position with regard to supplies and trade in 1919.

Newton, Arthur P. (Ed.). The Staple Trades of the Empire. J. M. Dent & Sons. 1918. 184 pp.

Pp. 169–84, 'The Importance of Imperial Wool', by Eldred F. Hitchcock. Discusses position as to production of wool before war, the course of prices during war and causes of rise, and future prospects.

Zimmern, Dorothy M. 'The Wool Trade in War Time,' in *Econ. Jl.,* Mar. 1918 (vol. 28), pp. 7–29.

Describes organization of the industry and Government control.

¶ *Trade Journals:* [1]

Bradford Wool Record. Bradford. Weekly. £1 1*s.* p.a.

Useful publication. Contains information as to state of trade, weekly lists of prices of fleeces, tops, yarn, &c., much criticism of the system of control.

—— *Supplement,* Aug. 16, 1917. 'Wool Trade Control.' 8 pp.

Gives report of special Committee appointed to investigate statements made by War Office as to stocks of wool and material. Criticizes methods of calculating stocks and consumption, showing talk of shortage unjustified and short-time working unnecessary. (Official reply published in *Bradford Wool Record,* Aug. 23, 1917.)

Hosiery Trade Journal. Leicester. Monthly. 3*s.* p. a.

[1] *Vide* also under AGRICULTURE, § III, B, 1, *supra,* especially *Trade Journals* (pp. 162–4), for information, *passim,* as to control of wool from farmers' point of view.

Contains some information as to state of hosiery trade, labour conditions, Government Orders and control, &c.

Yorkshire Observer. (Bradford. Daily). Annual Trade Supplement published in Dec.

Contains fairly full account of conditions during the year, in wool, worsted and clothing industries (*inter alia*). Tables of estimates of wool grown in U.K. and consumption, prices of tops, wools, &c.

Yorkshire Post. Leeds. Daily.

Contains in December a review of trade and finance during the year. Includes a review (3 or 4 cols.) of woollen and worsted industries, prices of yarns, tops, &c.

11. TIMBER (including Forestry)

¶ *Act of Parliament:*

Forestry Act, 1919. 9 & 10 Geo. V. c. 58. 11 pp.

Provides for establishment of Forestry Commission.

¶ *Official Publications:*

Manuals of Emergency Legislation. Defence of the Realm Manual, Feb. 28 and Aug. 31, 1918. War Materials Supplies Manual, 1st and subsequent editions. (*Vide supra*, p. 84.)

Contain Orders, notices, &c. as to timber.

Board of Agriculture. Home-Grown Pit-wood, Supplies of, in England and Wales, Report on. 1914–16, Cd. 7729, vol. 27. 13 pp.

Discusses quantities of pit-wood available, difficulties of marketing, prices and adequacy of supply.

—— Wages and Conditions of Employment in Agriculture. (*Vide infra*, p. 463.)

Vol. 1 (pp. 20–21, 46–48) and vol. 2 (*passim*) contain some information as to timber-felling and employment of labour in woodlands.

—— *Jl. Bd. Agric.*, Dec. 1914 (vol. 21), pp. 777–88. 'Supplies of Pit-timber.'

Discusses position as to supplies and probable demand, and gives advice as to type of timber required, methods of marketing, cutting, &c.

Board of Trade. Imported Pit-timber, supply of, with special reference to resources in Newfoundland and Eastern Canada, Reports on. 1914–16, Cd. 7728, vol. 27. 20 pp.

Gives statistics of imports in 1913 and an account of steps taken by Board of Trade to insure supplies since outbreak of war, with reports of Commission of Enquiry sent to Canada.

—— Profiteering Acts. Timber, prices, costs and profits at all stages of, Findings of a Committee on. 1920, Cmd. 985. 9 pp.

Gives an account of Government operations in purchase, control and sales of timber. Discusses causes of rise in prices and extent of trade combination.

—— *Bd. of Trade Jl.*, Jan. 31, 1918 (vol. 100), pp. 119–22. 'Coal Supplies and Distribution. II. Controlling the Mines.'

Contains (p. 121) brief account of action taken by Coal Controller and Controller of Timber Supplies with regard to supplies of pit-timber.

—— *Ibid.*, Mar. 7, 14, and 21, 1918 (vol. 100), pp. 271–3, 299–301, 340–1. 'The Problem of Timber. I. Developments during the War. II. Utilizing our Home Woods. III. Labour and Afforestation.'

I. Gives an account of development of Government control and measures taken. II. Describes control exercised to secure home timber supplies and estimates relation between supply and demand for the year; notes amount of British wood purchased by Timber Supply Department during war

Board of Trade (*cont*).

and describes growth of saw mill industry. III. Describes work of the foresters from Canada, Newfoundland and New England and manner in which difficulties of machinery and transport have been dealt with.

—— *Ibid.*, June 27, 1918 (vol. 100), pp. 800–1. 'The Control of Imported Softwood Timber.'

Gives particulars of new rationing scheme and describes measures to be taken for forming a national stock.

—— *Ibid.*, Jan. 23, 1919 (vol. 102), p. 94. 'Timber Supplies.'

Gives restrictions at present in force and a few particulars as to what has been done during war to increase home production.

—— *Ibid.*, Jan. 30, 1919 (vol. 102), p. 126. 'Timber Control.'

Explains new Orders.

Conference. British Empire Forestry Conference. Resolutions passed at meeting in London, July 22, 1920. 1920, Cmd. 865. 18 pp.

Resolutions *re* policy to be pursued.

—— *Ibid.* Statement prepared by Forestry Commission for the Conference. *Vide* FORESTRY COMMISSION, *infra*.

Dept. of Scientific and Industrial Research. Bulletin, No. 1. Memorandum on Preservation of Timber in Coal Mines. By Percy Groom. To be obtained gratis from Sec. of the Dept. 1917. 3 pp.

Suggests methods for remedying or preventing decay of pit timber.

Forestry Commission. Statement prepared for the British Empire Forestry Conference. H.M.S.O. 1920. 43 pp.

Gives general description of forestry in British Isles, types of timber and area covered, organization of Forest Authority, activities of municipal and private bodies as regards afforestation, facilities for research and experimental work, &c. Statistics *re* annual increment and utilization of home timber in last ten years and output and labour in forest industries. Discusses probable duration of home timber supplies and steps to be taken to develop resources.

Home Office. Conditions prevailing in the Coal-Mining Industry, Departmental Committee on. 3rd Report. 1916, Cd. 8345, vol. 6. (*Vide infra*, p. 310.)

Gives (pp. 8–9, 16–17) brief account of steps taken by Government in 1916 to organize supplies of pit-timber.

—— Mines and Quarries. Annual Reports of Chief Inspector for 1916 to 1919. Pts. I. Divisional Statistics. (*Vide infra*, p. 303.)

Contain short reports of working of Pitwood Committees and Associations in the different divisions.

Ireland. Dept. of Agric. and Technical Instruction. Statistics, Agricultural, of Ireland with detailed report, for 1914, 1915, 1916. (*Vide supra*, p. 144.)

Contain statistics of acreage under forest trees, area planted and cleared during year, number of trees felled, and uses to which timber applied.

Ministry of Reconstruction. Forestry Sub-Committee, Final Report of. 1917–18, Cd. 8881, vol. 18. 105 pp.

Reviews pre-war position. Discusses national requirements and prospect of future supplies. Describes experience during war (imports, consumption, difficulties in organizing home supply, &c). Report mainly occupied with discussion of future policy. Recommends afforestation.

—— Reconstruction Problems. No. 11. Commercial Forestry. H.M.S.O. 1919. 14 pp.

Discusses need for afforestation and measures which should be taken.

Scotland. Board of Agric. for Scotland. Annual Reports. (*Vide supra*, p. 147.)

Report 1914, pp. lxxi–viii; 1915, pp.

xlvii–l, 4, 5; 1916, pp. xxxv–ix, 4, 5; 1917, pp. lv–lix, 7, 8; 1918, pp. lxxii–vii, 13. Contain information as to steps taken *re* supplies of timber, employment of women, &c., in forestry, and statistics of imports.

—— *Scottish Jl. Agric.*, Jan. 1918 (vol. 1), pp. 51–6. 'Some Effects of the War on Scottish Forestry.'

Discusses need for afforestation to replace trees felled.

—— *Ibid.*, July 1918 (vol. 1), pp. 343–6. 'Forest Protection.'

Discusses effect of war (premature and extensive fellings) and need for immediate steps, e.g. clearing of brushwood.

—— *Ibid.*, Oct. 1918 (vol. 1), pp. 450–4. 'Utilisation of Home-grown Timber.'

Describes uses to which Scotch timber has been put during war and compares suitability of foreign and home-grown timber.

Treasury. Vote of Credit, Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Contains (pp. 91–2, 95–7) trading accounts of Board of Trade with regard to home timber supplies and imported timber disposal, to March 31, 1919, with explanatory notes.

¶ *Books and Periodicals:*

Acland, F. D. 'The Prospects of starting State Forestry,' in *C. R.*, Ap. 1919 (vol. 115), pp. 386–95.

Discusses value of home-grown timber as shown by war experience.

Ball, J. B. Native Timber Supplies and the War. Report of speeches and appeals by Controller of Timber Supplies (J. B. Ball) and others. (Reprinted from report in *Land Agents' Record*, Dec. 15, 1917). English Forestry Association, Farnham Common, Slough. 1917. 20 pp.

Deals with steps taken by Government in controlling timber, and need for replanting.

Duchesne, Martin Collier. 'English Timber: before, during, and after the War,' in *Trans. Surveyors' Inst.*, 1915–16 (vol. 48), pp. 77–136 (with discussion).

Discusses conditions of timber trade before war and increased demand during war. Gives some prices paid for imported timber in 1915 compared with pre-war prices.

—— 'Afforestation: its Practice and Science,' in *Report of Brit. Assoc.*, 1918, pp. 68–79 (with discussion).

Refers briefly to increased importance of timber during war. Discusses report of Forestry Sub-Committee (*supra*, p. 296), and urges need of afforestation.

—— The National Need for Forestry. A paper on 'British Timber Supplies and the Safety of the Realm,' read before the worshipful Company of Carpenters, Ap. 10, 1918. Oxley & Son. Windsor (printers). 1918. 23 pp.

Discusses briefly question of timber supplies during war, quoting figures of imports and prices, and discusses future prospects and need for afforestation.

Forbes, A. C. 'Production and Value of Irish Timber,' in *Jl. Dept. Agric. and Tech. Instruction Ireland*, Jan. 1915 (vol. 15), pp. 338–46.

Discusses supplies of Irish timber, home uses, and exports to Great Britain.

—— 'The Present and Future Timber Supplies of Ireland,' in *Ibid.*, Oct. 1916 (vol. 17), pp. 20–9.

Discusses consumption of Irish timber for war work, existing stocks and future supplies, need for afforestation.

Lovat, Lord. 'Forestry,' in *Jl. Roy. Soc. Arts*, Jan. 7, 1921 (vol. 69), pp. 99–113.

Gives an account of Government forestry policy during war, describes pre-

sent position and makes recommendations for future policy.

Maxwell, Sir John Stirling. 'Forestry and the War,' in *Proc. Roy. Phil. Soc. Glasgow*, 1916–17 (vol. 48), pp. 1–17.

Alludes briefly to effect of war on timber supplies and steps taken by Government. Urges need for developing forestry.

—— 'Forestry and Rural Policy,' in *Trans. Highland and Agric. Soc. Scot.*, 1919 (5th Series, vol. 31), pp. 67–93.

Mainly a discussion of future policy. Describes briefly (pp. 75–7), effect of war and working of Government control in Scotland.

Nature, Dec. 10, 1914 (vol. 94), pp. 393–5. 'The Supply of Pitwood,' by A. H.

Discusses effect of war conditions on supplies and future prospects.

Pratt, Edwin A. British Railways and the Great War. (*Vide infra*, p. 345.)

Pt. VIII, Chap. 51, pp. 754–61, 'Timber Control, Supply and Transport'. Gives short account of assistance given by Canada, &c. in providing lumbermen and equipment, work of Timber Supplies Department, arrangements made for transport of timber by rail.

Quarterly Journal of Forestry. *Vide* ROY. ENG. ARBOR. SOC., *infra*.

Royal English Arboricultural Society. *Quarterly Journal of Forestry*. Laughton & Co. Quarterly.

Contains occasional articles and notes bearing on the effect of war on timber trade, e. g. demand for different kinds of timber, home production, prices, employment of women, &c.

Royal Scottish Arboricultural Society. *Transactions*. Half-yearly. Douglas & Foulis, Edinburgh.

Contain, *passim*, some information as to conditions during war, e. g. steps taken by Government *re* timber supplies, employment of women, ex-service men, &c., prices of timber, conferences with Government *re* replanting and afforestation, &c.

Stebbing, Edward P. British Forestry: Its Present Position and Outlook after the War. John Murray. 1916. 257 pp.

Discusses effect of war, e. g. on supplies and prices. Analyses imports and exports and gives table of rates of home timber of various kinds in Feb. 1916 compared with pre-war prices; criticizes Government action. Mainly a discussion of future position of the industry and plea for steps to be taken.

—— 'Forestry and the War,' in *Jl. Roy. Soc. Arts*, Mar. 17, 1916 (vol. 64), pp. 350–60.

Discusses effect of war on supplies, quoting prices of timber, colliery wood and railway sleepers compared with pre-war prices. Discusses future prospects and urges need of afforestation.

—— Commercial Forestry in Great Britain: Its Decline and Revival. John Murray. 1919. 186 pp.

Pt. II (i.e. Chaps. IV and V, pp. 53–75, 'Timber Supplies during the War', and 'The Afforestation Problem during the War') gives an account of measures taken by Government and planting operations. Pts. I and III deal with pre-war and post-war periods.

Timber Trade Federation. Annual Reports for 1914, &c. London Chamber of Commerce.

Contain considerable amount of information with regard to effect of war on timber trade, working of Government control and action taken by Federation, supply of labour, compensation for road damage, &c.

Yorkshire Pitwood Association. Statement to the Members, 1917–20. 16 pp. Y.P.A., Equity Chambers, Doncaster.

Gives an account of the work of the Association in organizing supply of timber for collieries.

¶ *Trade Journals:*

Builder. (*Vide supra*, p. 48.)

Gives weekly prices of various kinds of builders' and joiners' wood in London.

Colliery Guardian. (*Vide infra*, p. 315.)

Contains, *passim*, some information as to position with regard to supply of pit props, working of Government control, allocation of timber supplies, &c.

Compendium. (*Vide supra*, p. 107.)

Gives timber prices monthly at ports, and good yearly review.

Glasgow Herald. Annual Supplements on ship-building, engineering and commerce. (*Vide supra*, p. 252.)

Contain articles on timber trade in West of Scotland, state of trade, prices, Government Orders and control, restriction of imports, &c.

Iron and Coal Trades Review. (*Vide supra*, p. 271.)

Similar information to that in *Colliery Guardian, supra.*

Timber News and Saw-mill Engineer. Weekly. 4*d.*

Contains reports of state of trade at different ports, prices at London auctions, reports of meetings of Timber Trade Federation, &c., and occasional comments *re* Government control.

Timber Trades Journal and Saw-Mill Advertiser. Weekly. 6*d.*

Useful publication. Gives reports on state of trade at various ports, statistics of London dock deliveries, prices at auction sales, reports of meetings of Associations, &c. Contains a fair amount of information with regard to effect of war on the trade and criticism of Government control (especially in later numbers).

Timber and Wood-working Machinery. Weekly. 6*d.*

Information similar to that in *Timber Trades Journal*, but somewhat less full.

—— Special Issues, May 13, 1915 (88 pp.), and May 31, 1916 (86 pp.).

Contain annual review of timber trade in various towns in U.K., developments of timber and wood-working machinery, &c.

12. TOBACCO

¶ *Official Publications:*

Board of Trade. Profiteering Act, 1919. Tobacco Industry, existence of Trade Combination in, and its effect on prices and on the trade generally, Findings by a Committee on. 1920, Cmd. 558. 8 pp.

Discusses effect of operations of Imperial Tobacco Company on prices during period of control and since.

¶ *Trade Journals:*

Cigar and Tobacco World. Monthly. 5*s.* p. a.

Organ for retail tobacco trade. Articles on position of the trade in London and provinces. New patents. Tobacco Companies' reports. News of branches of Tobacconists' Association and Tobacco Trade Travellers' Association.

Tobacco. Monthly. 6*d.*

Reports from trade centres in England and from tobacco exporting countries. Company news, &c. Discusses increase in tobacco duties, Tobacco Control Board and restriction of imports.

Tobacco Trade Review. Monthly. 3*d.*

Useful general notes on tobacco trade, discussing increase of duty, restriction of imports, &c. Havana monthly letter discussing imports of cigars. News of Companies and branches of Tobacconists' Association. Lists of current market prices of different kinds of tobacco. Each January issue contains short, useful review of tobacco trade for past year.

K. MINERALS

1. GENERAL

¶ *Acts of Parliament:*

Finance (No. 2) Act, 1915. 5 & 6 Geo. V. c. 89.

Finance Act, 1916. 6 & 7 Geo. V. c. 24.

Sec. 4 of Act of 1915 and Sec. 46 of Act of 1916 contain provisions *re* excess mineral rights duty.

Mining Industry Act, 1920. 10 & 11 Geo. V. c. 50. 15 pp.

Provides for establishment of Mines Department of Board of Trade and prescribes its powers and functions. Provides for repeal of Price of Coal (Limitation) Act, 1915.

¶ *Official Publications:*

Home Office. Coal Mines Acts, Metalliferous Mines Acts and Quarries Acts, Reports of Inspectors of Mines under, for 1914. For Divisions, Nos. 1 to 6. 1914–16, Cd. 8023 to 8023–V, vol. 28. *c.* 80 pp. each.

Contain statistics as to numbers employed, output, coal-cutting machinery, accidents, prosecutions. Give brief accounts of effect of war (enlistment, stoppage of exports, &c.). Divisional reports not published separately after 1914, but included in general report of Chief Inspector (*infra*).

—— Mines and Quarries. Annual General Reports, with statistics, by Chief Inspector of Mines. Pt. I. Divisional Statistics. Pt. II. Labour. Pt. III. Output.—(Report for 1914) 1914–16, Cd. 8035, 8135, 8141, vol. 80. 124 pp.—(Report, 1915) 1916, Cd. 8361, vol. 32, and 1917–18, Cd. 8443, 8444, vol. 37. 132 pp.—(Report, 1916) 1917–18, Cd. 8732, 8817, 8885, vol. 37. 128 pp.—(Report, 1917) 1918, Cd. 9120, vol. 24, and 1919, Cmd. 3 and 4. 134 pp. — (Report, 1918) 1919, Cmd. 339, 490, and 1920, Cmd. 531. 168 pp. — (Report, 1919) 1920, Cmd. 925, 1007, 1035. 280 pp.

Deal mainly with coal. Give statistics as to numbers employed, accidents, output, coal and coke traffic, quantity of coke obtained, number and kind of coking ovens, &c. Divisional reports contain references to effect of war (wages, Colliery Recruiting Courts, Pit Timber Committees, &c.). Pts. I and II of Report for 1918 contain reviews of effect of war on the coal industry. The Reports also give statistics with regard to iron and non-ferrous metals and oil shale industry (numbers employed, output, &c.), with brief references to effect of war.

—— Mines in U.K., List of, for 1918. H.M.S.O. 1919. 309 pp.

Gives list of mines with kind of minerals worked, and number of persons employed.

Ministry of Reconstruction. Acquisition and Valuation of Land for Public Purposes, Committee on law and practice relating to. 1st and 2nd Reports. 1918, Cd. 8998, 9229, vol. 11. 57 pp, 40 pp. 3rd Report. 1919, Cmd. 156. 37 pp.

Reviews existing law and practice and makes recommendations, especially in view of the public utility schemes which will be put forward at end of war. Third Report deals with acquisition of rights and powers in connexion with mines and minerals.

¶ *Books and Periodicals:*

Mining Manual and Mining Year Book for 1915, &c. Walter R. Skinner, Clement's Lane, and *Financial Times.*

Give lists of British-owned mining

companies with particulars as to yield, financial position, &c.

Redmayne, Sir R. A. S. Presidential Address, May 16, 1916, in *Trans. Inst. Mining and Metallurgy*, 1915–16 (vol. 25), pp. 32–55.

Discusses, in light of recent war experience, need for future development of mining industry (extension of coalfields, prevention of waste, economic working of resources of iron ore, &c.). Notes recent progress in organization and development of research.

—— and **Stone, G.** The Ownership and Valuation of Mineral Property in U.K. Longmans, Green & Co. 1920. viii + 256 pp.

A treatise on the nature of mineral interests and royalties and correct method of valuation, with a statement of the law relating to rating and valuation. Deals mainly with coal.

Stone, G. *Vide* REDMAYNE, SIR R. A. S. and STONE, G., *supra*.

¶ *Trade Journal :*

Mining Journal. Weekly. 8d.

Contains discussions of Government measures, technical articles, reports from mining centres (chiefly foreign), company reports, mining market notes and quotations, notes of home developments and inventions, &c.

2. COAL [1]

¶ *Acts of Parliament :*

Coal Mines Regulation Act, 1908. 8 Edw. VII. c. 57. 5 pp.

Limits hours of work below ground.

Coal Mines Act, 1911. 1 & 2 Geo. V. c. 50. 70 pp.

Makes provisions in connexion with management, safety, health, accidents, employment of young persons and women, wages, appointment and powers of inspectors, &c.

Price of Coal (Limitation) Act. 1915. 5 & 6 Geo. V. c. 75. 3 pp.

Coal Mines Control Agreement (Confirmation) Act, 1918. 7 & 8 Geo. V. c. 56. 10 pp.

Coal Industry Commission Act, 1919. 9 Geo. V. c. 1. 3 pp.

Coal Mines Act, 1919. 9 & 10 Geo. V. c. 48. 1 p.

Reduces the hours of work.

Coal Mines (Emergency) Act 1920. 10 Geo. V. c. 4. 11 pp.

Makes provision with regard to pooling and distribution of profits, control of colliery undertakings, wages, &c.

¶ *Official Publications :*

Manuals of Emergency Legislation. Defence of the Realm Manuals. (*Vide supra*, p. 84.)

Contain D.O.R.A. Regulations and Orders made thereunder *re* Coal.

Statutory Rules and Orders for 1915, &c. (*Vide supra*, p. 85.)

Contain Orders made by Board of Trade under Price of Coal (Limitation) Act.

Board of Trade. Coal Merchants in London district who have accepted an arrangement for a limitation of profits, List of. 1914–16, Cd. 8070, vol. 61. 5 pp.

Refers to conferences at Board of Trade at which arrangements were made for limitation of profits and gives list of merchants.

—— Coal Mines Control Agreement (Confirmation) Act, 1918.

[1] *Vide* also MINERALS, GENERAL, § K, 1, *supra*.
A ' Bibliography of the Nationalization of the Coal Supply ', compiled by Miss E. S. Scroggs, is to be found in the *Bulletin of the British Library of Political Science*, Feb. 1920 (No. 9), pp. 9–13.

Board of Trade (*cont.*)

Accounts for 1917–18 and 1918–19. 1920, No. 11. 3 pp.

Contains accounts with Report of Comptroller and Auditor-General commenting on them.

—— Coal Trade, position of, after the war, Report of Departmental Committee on. 1918, Cd. 9093, vol. 13. 33 pp.

Gives a few figures as to reduction in output (due to war) and enlistments, but deals almost entirely with post-war prospects.

—— Cost of coal to consumer, Statement showing basis upon which increase in, by 6*s*. per ton is calculated. 1919, Cmd. 252. 8 pp.

Gives schedules (presented to Coal Industry Commission) of output, numbers employed, absenteeism, &c., from 1913 to May 1919; comparison of output before Easter 1919 and after, when Sankey wage was in operation; estimated deficiency for 1919–20, &c.

—— [Output]. Quantities, estimated, of coal raised in U.K. in each quarter of 1915, compared with corresponding periods of 1914. 1916, No. 54, vol. 24. 4 pp.—*Ibid.* for 1916. 1917–18, No. 51, vol. 29. 4 pp.

Give statistics of output, time lost, amount exported and amount available for consumption.

—— Output (Monthly Statistics). Returns for four-weekly periods from June 21 to Dec. 6, 1919. 1919, Nos. 175 to 175–vi. — Returns from Jan. 3, 1920 to Jan. 3, 1921. 1920, Nos. 33 to 33–xiii. 1 p. each.

Give statistics of output and number of persons employed.

—— Output and costs of production, proceeds and profits of the coal-mining industry, Statistical summaries of, for quarters ended March 31, June 30 and Sep. 30, 1920. 1920, Cmd. 758, 949, 1080. 3 pp. each.

—— Price, Retail, of coal sold for domestic use, causes of present rise in, Committee on. Report and Minutes of Evidence, Apps. and Index. 1914–16, Cd. 7866, 7923, vol. 29. 11 pp., 263 pp.

Discusses causes of rise in price, making of undue profits, &c., and makes recommendations for dealing with the situation. Evidence contains information as to congestion on railways, position as regards coal stocks and prices from outbreak of war, method of purchase, sale of coal to Distress Committees, Winchester scheme for pooling of stocks by coal merchants, &c., &c. Appendices contain statistics as to retail and pit prices, output, exports, stocks, coal freights, time taken by railway wagons in transit, storage accommodation in London, memoranda on prices to poorer classes in Birmingham, &c., &c.

—— Shipments of coal from each port of U.K., Tables giving details as to, for each quarter of 1913 and 1914. 1914–16, Cd. 7979, vol. 61. 57 pp. — *Ibid.* for 1914 and 1915. 1916, Cd. 8288, vol. 24. 18 pp.

—— Tongue, Messrs. Alfred & Co., Chartered Accountants, Report on the Coal Industry by. 1920, Cmd. 555. 23 pp.

Report as to whether estimates *re* 6*s*. increase were based on reasonable assumptions and data on which reduction of price by 10*s*. is based.

—— *Bd. of Trade Jl.*, Jan. 24 and 31, 1918 (vol. 100), pp. 92–4 and 119–22. 'Coal Supplies and Distribution. I. How the Mines were taken over. II. Controlling the Mines.'

I. Describes difficulties of distribution and labour after outbreak of war, steps taken by Board of Trade to assume control, powers of Coal Controller and agreement for compensation of coal-owners. II. Describes working of control in respect of production and labour, distribution, prices and timber stocks, and gives some

idea of results obtained with regard to output and general conditions.

—— *Ibid.*, March 13, 1919 (vol. 102), pp. 340–3. 'Export Coal Trade of U.K.'

Analyses exports 1913–18.

—— *Ibid.*, June 26, 1919 (vol. 102), pp. 793–7. 'Coal Production, 1913–19.'

Quotes returns issued by Coal Controller as to numbers employed, average output per man, absenteeism, &c., in various districts.

Commissions, Royal. Coal Industry, Royal Commission on. Reports and Minutes of Evidence on 1st stage. 1919, Cmd. 359. xxiv + 414 pp. *Ibid.*, on 2nd stage. 1919, Cmd. 360. xxxii + 1219 pp. Apps., Charts and Indexes (both stages). 1919, Cmd. 361. 318 pp.

Reports on first stage deal with wages and hours. Reports on second stage deal with future organization of the industry. Evidence, especially vol. 1, contains useful information as to control during war (profits, organization of transport, &c., &c.); vol. 2 deals largely with abstract questions of nationalization, royalties, &c.

Department of Scientific and Industrial Research. Fuel Research Board. Fuel for Motor Transport, Memorandum on.

Vide infra, pp. 324–5.

—— *Ibid.* Report of, on their scheme of research and on the establishment of a fuel research station. H.M.S.O. 1917. 10 pp.

Gives an account of research scheme for obtaining fuel from coal by carbonization and gasification.

—— *Ibid.* Report of, for 1918 and 1919. H.M.S.O. 1920. ii + 57 pp.

Gives an account of work done in connexion with questions of fuel economy, oil fuel, fuel alcohol, &c.

Home Office. Coal Conservation Committee. *Vide* under Ministry of Reconstruction, *infra*.

—— Conditions prevailing in the Coal Mining Industry due to the War, Departmental Committee on (Coal Mining Organization Committee). 1st Report. 1914–16, Cd. 7939. 54 pp. Minutes of Evidence and Index. Cd. 8009. iv + 248 pp. 2nd Report. Cd. 8147. 33 pp. (All in 1914–16, vol. 28). 3rd Report. 1916, Cd. 8345, vol. 6. 17 pp.

Give an account of conditions prevailing up to commencement of Government control in 1917, e. g. as regards output, enlistment, absenteeism, disorganization of industry on outbreak of war, agreements between owners and men for preventing disputes, difficulties of transport, Colliery Recruiting Courts, Absentee Committees, Committees for dealing with export and home distribution of coal, organization of supplies of pit-timber, &c., &c.

Ireland. Irish Coal Industry Committee, 1919. Report. 1920, Cmd. 650. 16 pp. Minutes of Evidence and Apps. H.M.S.O. 1920. iv + 102 pp.

Report gives brief survey of characteristics of the industry, labour conditions, &c., and discusses possibilities of development. Figures of output for series of years to 1918. Refers briefly to Government action during war.

Ministry of Reconstruction. Coal Conservation Committee. Final Report. 1918, Cd. 9084, vol. 7. 89 pp.

Contains Interim (and in effect Final) Reports of Power Generation and Transmission Sub-Committee on Electric Power Supply (*vide supra*, p. 243) and Geological Sub-Committee; Interim Report of Mining Sub-Committee, which (pp. 41–3) contains lists of Government Departments dealing with mines and minerals in peace time and of the various Committees, &c., set up to deal with coal during war; Final Report of Mining Sub-Committee, which discusses waste of coal and measures to obviate it, cost of production, &c.; and Report of

Carbonization Sub-Committee, *re* application of carbonization to preparation of fuel for domestic and industrial purposes.

¶ *Books and Periodicals :*

Arnot, R. Page. Facts from the Coal Commission. Compiled for the Miners' Federation. With a Foreword by Robert Smillie and Frank Hodges. Labour Research Dept. and Geo. Allen & Unwin. 1919. 40 pp.

Describes course of events leading up to appointment of Royal Commission, and discusses, from miners' standpoint, the evidence and reports.

—— Further Facts from the Coal Commission. Compiled for the Miners' Federation. With a Preface by Robert Smillie and Frank Hodges. Lab. Res. Dept. and Geo. Allen & Unwin. 1919. 47 pp.

Describes second stage of Coal Commission, discusses evidence and reports and subsequent action taken by Government. Gives text of Bill drafted by miners.

Askwith, J. S. The Compendium of Coal Control Accounting. Commercial Compendium Co. 1920. x + 243 pp.

Deals with special accounting necessitated by coal control. Explains coal control measures in detail, discussing standards applicable for ascertaining profits of coal-owners and compensation payable by Controller, giving examples to illustrate method of accounting.

Bone, W. Arthur. 'Coal and its Conservation,' in *Jl. Roy. Soc. Arts*, Oct. 17, 24 and 31, 1919 (vol. 67), pp. 737–43, 751–60, 765–72. (Cantor Lectures).

Lecture I discusses statistics of output and prices in Great Britain and U.S.A., 1913–18. Gives figures of prices of household coal in London, gas coal used by S. Metropolitan Gas Co. and Durham coking coal, 1914–18, and similar figures for U.S.A. Lectures II and III deal with questions of future policy.

British Assoc. for Advancement of Science. Committee on Fuel Economy, Utilisation of Coal, and Smoke Prevention, 1st, 2nd and 3rd Reports of, in *Reports Brit. Assoc.*, 1916, pp. 187–201 ; 1919, pp. 97–110 ; 1920, pp. 248–60.

Give an account of investigations made. Second report compares output and prices of coal in Great Britain and U.S.A. during war. Third Report gives official estimates of pit-head prices in 1913 and 1919 and contains a memorandum discussing defects in methods of obtaining statistics and need for uniformity and more precise definition.

Bulman, H. F. Coal Mining and the Coal Miner. Methuen & Co. 1920. xii + 338 pp.

Gives description of the industry (labour employed, wages, disputes and methods of settling, value and extent of the industry, distillation products, use of machinery, profits, housing, &c.). Relates in the main to normal pre-war conditions, but gives some information as to development during war. Written from colliery owner's standpoint.

—— and **Redmayne, R. A. S.** Colliery Working and Management. Crosby, Lockwood & Son. 1912. xii + 310 pp.

A pre-war account of the industry. Describes methods and progress in working coal, variations in costs and market value, improvements in miners' wages and conditions, duties and qualifications of managers and officials, colliery routine, classes of labour employed, method of calculating wages, &c.

Fortnightly Review, Oct. 1920 (vol. 108), pp. 573–83. 'British Coal and American Competition,' by 'Politicus'.

Compares British and American outputs since outbreak of war and discusses reasons for inferiority of Great Britain.

Hatch, F. H. The Iron and Steel Industry of U.K. (*Vide supra*, p. 269.)

Pp. 94–102, 108, 126–7. Describes wartime conditions as regards coke, its control

by Ministry of Munitions, fluctuation of prices, organization of production, statistics of output, consumption and export, number of by-product coke ovens laid down, statistics of by-products, difficulties in obtaining supply of coke oven bricks and steps taken.

Henderson, H. D. 'The Reports of the Coal Industry Commission,' in *Econ. Jl.*, Sep. 1919 (vol. 29), pp. 265–79.

Discusses, *inter alia*, pooling of profits under control and difficulties of price-fixing.

Hodges, Frank. Nationalisation of the Mines. With Foreword by John R. Clynes. Leonard Parsons. 1920. 170 pp.

Discusses defects of existing individualistic system and advantages of nationalization and self-government. Contains some discussion as to causes of diminished output, due to war conditions.

Imperial Institute. Monographs on Mineral Resources with special reference to the British Empire. Coal. By J. H. Ronaldson. John Murray. 1920. x + 166 pp.

Shows annual output of chief countries up to 1919. Describes formation and extent of British home and Dominion sources of supply, recent working developments, estimated reserves, &c.

Jevons, H. Stanley. The British Coal Trade. Kegan Paul, Trench, Trübner & Co., London, and E. P. Dutton & Co., New York. 1915. xii + 876 pp.

Gives description of coal fields in U.K., preparation of coal, by-products, organization of the industry, methods of paying wages, mining law, trade unions, miners' life and work, housing, &c. Refers practically entirely to pre-war conditions.

Redmayne, Sir R. A. S. 'Coal-mining,' in *Times Eng. Suppts.*, Jan. 1920, p. 15, and Jan. 1921, pp. 16–17.

Reviews developments in the industry during preceding year, labour questions, Government measures, output, reconstruction work at mines, technical progress, &c.

—— and **Bulman, H. F.** *Vide* Bulman, H. F., *supra*.

Renwick, W. H. 'The Coal Industry under War Conditions,' in *N.C.*, Aug. 1915 (vol. 78), pp. 413–28.

Discusses reports of Committees on price of coal and conditions in the industry (*vide supra*, pp. 308, 310), prohibition of export, S. Wales coal strike, &c.

Ronaldson, J. H. Coal. *Vide* Imperial Institute, *supra*.

Sellers, Edith. 'On the Manufacturing of Grievances,' in *N.C.*, Mar. 1917 (vol. 81), pp. 550–61.

Describes, from her own experience, grievances felt by the poor at unjust system of distribution of coal and sugar.

Shadwell, Arthur. Coal Mines and Nationalisation. Reprinted from *The Times*. Longmans, Green & Co. 1919. 32 pp.

Discusses conditions of the mining industry, the miners' work, standard of living, mortality, housing, &c. Argues that position is more favourable than as depicted by miners before Coal Commission and that defects can be remedied without nationalization.

Snelling, W. E. Coal Mines Excess Payments, Guarantee Payments and Levies for closed Mines (incorporating statements of the relevant Excess Profits Duty Law). Sir Isaac Pitman & Sons. 1918. viii + 176 pp.

Gives an account of Coal Mines Control Agreement and Act making it binding and explains provisions of the Agreement. Gives extracts from debates in Parliament on the subject.

South Wales Coal Annual for 1915, &c. Business Statistics Co., Cardiff.

Contain statistics *re* S. Wales coalfields, prices, freights, steamship charters, exports, output, railway rates, wages, &c., &c., and some information as to war measures.

Stone, Gilbert. The British Coal Industry. J. M. Dent & Sons, London and Toronto, and E. P. Dutton & Co., New York. 1919. xi + 188 pp.

Gives short historical account of the industry and description of a modern colliery. Discusses causes of present reduced output, due partly to war conditions. Describes course of wages during war. Discusses future prospects.

Tawney, R. H. 'The Coal Industry Commission and the Consumer,' in *C.R.*, Aug. 1919 (vol. 116), pp. 144–53.

Discusses wastefulness of individual ownership of mines, as revealed in evidence given before Coal Industry Commission.

—— 'The British Coal Industry and the Question of Nationalization,' in *Quarterly Jl. Economics*, Nov. 1920 (vol. 35), pp. 61–107.

Examines organization of the industry before war and system of control during war, discussing owners' profits. Discusses findings of Coal Industry Commission as to extravagance of existing system and reviews miners' grievances. Examines critically various proposals for re-organization of the industry, dealing in detail with the question of its nationalization under public ownership and with Justice Sankey's scheme for nationalization.

—— The Nationalization of the Coal Industry. Labour Party. (?)1920. 31 pp.

Discusses the same questions as in article above, *q. v.*

Whetham, Wm. C. D. The War and the Nation. John Murray. 1917. ix + 312 pp.

Chap. iv, 'Coal and Railways.' Gives (pp. 170–91) arguments in favour of nationalization of mines and national control of distribution of coal. Refers to rise in profits during war.

¶ *Trade Journals:*

Colliery Guardian. Weekly. 6*d.* Illustrated.

Useful publication. Contains much information as to effect of war on the industry (e. g. state of employment, recruiting, labour disputes and wages, transport difficulties, export trade, &c.) and discussion as to effect of Government regulations. Weekly reports as to state of market, prices, &c., in different districts. Full review, in first issue of each year, of coal trade in previous year.

Compendium.

Vide supra, p. 107.

Gas World. (*Vide supra*, p. 259.)

Contains annually, last number of December, a review of the coal trade during the year (and information, *passim*, throughout the year). Discusses position in the coal industry especially as it affects the gas industry. Criticizes action of Coal Controller.

Glasgow Herald. Annual Suppts. on Shipbuilding, Engineering and Commerce. (*Vide supra*, p. 252.)

Contain reviews of the coal industry in West of Scotland during the year. Suppt. for 1918 contains a general survey of the war period (exports, wages, prices, &c.).

Iron and Coal Trades Review.

Vide supra, p. 271.

Journal of Gas Lighting & Water Supply. (*Vide supra*, p. 259.)

Contains annually, in last issue of December, in a review of the gas industry for the past year, an account of the position as regards coal, especially as it affects the gas industry (e. g. supplies, prices, action of Coal Controller, labour questions, &c.) and information *passim* throughout the year on the same subject.

Lloyd's List. (*Vide infra*, p. 363.)

Contains reports of state of coal trade from all the important coal production and shipment centres, with detailed lists of prices at pit or f.o.b.

Times. Engineering Suppts. Jan. 1916, 1917, 1918, 1919.

Contain articles reviewing the coal industry for previous year. (For Suppts. Jan. 1920 and 1921, *vide* under REDMAYNE, R. A. S., *supra*.)

3. IRON[1]

¶ *Official Publications :*

Department of Scientific and Industrial Research. Iron and other Metalliferous Ores used by Iron and Steel Industry, Report on sources and production of. [By G. C. Lloyd]. H.M.S.O. 2nd ed. 1918. 180 pp.

Gives details of sources, extent of working and output, in Great Britain and abroad, of iron and other ores used in iron and steel industry. Statistics mainly pre-war.

H.M. Geological Survey. Special Reports on Mineral Resources of Great Britain. Vols. 8 to 13. Iron Ores. By various writers. H.M.S.O. 1919 and 1920.

Give accounts of the distribution and constitution of ores, method of mining, &c., with particulars of individual mines. Mainly geological. Vols. 8 and 11 give short historical accounts of the industry in Cumberland and Lancashire and in Scotland, respectively, quoting figures of output, &c.

¶ *Books and Periodicals :*

Fearnsides, Wm. Geo. 'The Shortage of the Supply of Non-Phosphoric Iron Ore,' in *Jl. Roy. Soc. Arts*. Sep. 28 and Oct. 5 and 12, 1917 (vol. 65), pp. 743–54, 757–66, 771–83.

Discusses sources of supply of ore in Great Britain and foreign countries. Refers to progress of basic iron production during war and urges increased adoption of basic process.

Hatch, F. H. 'The Jurassic Ironstones of U.K. economically considered,' in *Jl. Iron and Steel Inst.*, 1918, No. 1 (vol. 97), pp. 71–125 (with discussion).

Published by permission of Controller of Iron and Steel Production. Mainly a description of composition, methods of working, &c. Refers to increased importance of jurassic ironstones owing to war, and transport difficulties in getting ironstone delivered to ironmasters. Gives statistics of production and output per man in 1917, from returns to Ministry of Munitions.

Louis, H. 'British Iron Ore Resources,' in *Nature*, Nov. 28, 1918 (vol. 102), pp. 244–5.

Refers to development of iron ore resources during war, and discusses quantity available.

4. NON-FERROUS METALS AND MINERALS[2]

¶ *Acts of Parliament :*

Coal Mines Regulation (Amendment) Act, 1917. 7 Geo. V. c. 8. 1 p.

Extends to other mines Sec. 4 of Coal Mines Regulation Act, 1908 (which provides for suspension of limitation of hours in coal mines in event of war and other emergencies).

Non-Ferrous Metal Industry Act, 1918. 7 & 8 Geo. V. c. 67. 6 pp.

Restricts temporarily the persons who may engage in business connected with certain non-ferrous metals and metallic ores.

¶ *Official Publications :*

Board of Trade. Non-Ferrous Mining Industry, Departmental Committee on. Report, with Apps., Charts and Index. 1920, Cmd. 652. 46 pp.

Discusses mainly post-war conditions

[1] *Vide* also MINERALS : GENERAL, § K, 1, *supra*, pp. 303–6, and IRON AND STEEL, § J, 6, *supra*, pp. 267–70.

[2] *Vide* also MINERALS : GENERAL, § K, 1, *supra*.

and prospects (of tin, lead and zinc industries), but refers also to conditions during war and effect of Government action, e.g. on prices, production, &c. Appendices contain statistics of output and prices (mainly from official sources), dividends and profits of principal mines, &c.

Committees. Commercial and Industrial Policy, Committee on. Interim Report on certain Essential Industries. 1918, Cd. 9032, vol. 13. (*Vide supra*, p. 101.)

Deals briefly (pars. 4, 6–12, 29) with spelter, tungsten, and barytes (arrangements made for supply during war, recommendations as to future assistance of the industry, &c.).

H.M. Geological Survey. Special Reports on Mineral Resources of Great Britain. Vol. I. Tungsten and Manganese Ores. By H. Dewey and C. E. N. Bromehead. H.M.S.O. 1915. iv + 59 pp.

—— *Ibid.* Vol. 2. Barytes and Witherite. By R. G. Carruthers and others. 1915. iv + 93 pp.

—— *Ibid.* Vol. 15. Arsenic and Antimony Ores. By Henry Dewey. 1920. iv + 59 pp.

Give accounts of the distribution, uses, methods of preparation, output (pre-war), &c., of the different minerals, with particulars of individual mines. Only brief and incidental references to effects of war.

Imperial Mineral Resources Bureau. 1st Annual Report for 1919. H.M.S.O. 1920. 24 pp.

Gives account of preliminary steps taken for stimulating production and consumption of minerals and metals within British Empire, supplying information to trade organizations and Government Departments, &c.

—— The Mineral Industry of the British Empire and Foreign Countries, War Period (1913–1919). Reports on Arsenic, Bismuth, Borates, Chrome Ore and Chromium, Felspar, Fuller's Earth, Magnesite, Monazite, Nitrates. H.M.S.O. 1920. *c.* 30 pp. each. (Series in progress.)

Each volume contains a synopsis of the information available for the period (i.e. manner of occurrence, analysis, uses, output, foreign trade, prices), with special reference to U.K.

Ministry of Munitions. Department for Development of Mineral Resources in U.K., Report of Controller of. 1918, Cd. 9184, vol. 12. 62 pp.

Gives short history of all minerals other than coal and iron, and statistics of output. Gives some information as to supply of labour and wages during war. Describes aims of Mineral Resources Department and gives instances of Government assistance, e.g. in granting loans, working mines, research, &c. Makes suggestions for establishment of a Mines Department.

¶ *Books and Periodicals :*

Beale, Octavius Chas. 'Mineral Resources of the Empire,' in *E.R.*, Ap. 1917 (vol. 24), pp. 337–48.

Describes difficulties which had to be overcome in obtaining supplies of copper, zinc, &c., during war.

Carpenter, H. C. H. 'Munition Metals,' in *Nature*, July 1915 (vol. 95), pp. 539–40.

Compares resources of Allies and enemy countries as regards iron, nickel, copper, &c. Describes sources of supply, uses for which needed, shortage of zinc.

—— 'The Future of the Zinc-smelting Industry in Great Britain,' in *Nature*, Oct. 19, 1916 (vol. 98), pp. 129–31.

Describes position at outbreak of war, development during war in U.S.A., Great Britain, &c., and future prospects.

Cornish Chamber of Mines. Year Books for 1917, &c. Edited by Harold E. Kern, 66 Finsbury Pavement.

Are reports of the work of the Chamber. Contain accounts of action taken with

regard to Excess Profits Duty, supply of labour, Government control of tin, formation of Joint Industrial Council, &c. Notes on the several mines in Cornwall and Devon (capital, dividends, development, &c.). Statistics of output, &c. Yearbook for 1920 contains (pp. 66–111) evidence-in-chief of managers of various mines given before the Non-ferrous Mining Industry Committee, containing information as to position of the mining industry in Cornwall and Devon during war and subsequently.

Engineering, Feb. 15 and 22, 1918 (vol. 105), pp. 167–9 and 200–2. 'The British Spelter Industry.'

Discusses position with regard to supply of spelter, extensions made by various firms during war, processes, &c.

Haynes, Talbot. 'Turning Waste into Money: The Uses of To-day's Scrap-heap,' in *System*, Oct. 1917 (vol. 32), pp. 223–9.

Describes (pp. 227–9) some of the uses to which scrap metal is being put.

Imperial Institute. Monographs on Mineral Resources with special reference to the British Empire. Zinc Ores. 1917. 64 pp.

—— *Ibid.* Manganese Ores. By A. H. Curtis. John Murray. 1919. x + 118 pp. Bibliography.

—— *Ibid.* Tin Ores. By G. M. Davies. John Murray. 1919. x + 111 pp. Bibliography.

—— *Ibid.* Tungsten Ores. By R. H. Rastall and W. R. Wilcockson. John Murray. 1920. ix + 81 pp. Bibliography.

Give accounts of the sources of supply, in Great Britain and abroad, production, imports and exports (before and during war), properties and uses, &c., with some reference to effect of war on position in the various countries.

Institute of Metals, Journal of. Half-yearly. Caxton House, Westminster.

Technical articles. *Vide* also article by Smith, E. A., *infra*.

Ironmonger Metal Market Year Book.

Vide supra, p. 269.

Mines Handbook. Vol. 12, 1916. Vol. 13, 1918. W. H. Weed, New York City.

Contain, *inter alia*, statistics of metal mining industry (output, foreign trade, prices, &c.), relating chiefly to U.S.A. Occasional statistics of output and prices in Great Britain and other countries, average English and American prices for copper, American copper exports to Great Britain, &c.

Mining Journal, July 8 and 15, 1916 (vol. 114), pp. 480–1, 496–8. 'Costs and Profits of an up-to-date Spelter Works.'

Discusses and explains unfavourable position of spelter industry in U.K. compared with continental industry. Describes scheme for setting up smelting works on continental system and discusses cost of working, advantages, and prospects of scheme.

Moulden, J. C. 'Zinc, its Production and Industrial Application,' in *Jl. Roy. Soc. Arts*, May 26 and June 2, 1916 (vol. 64), pp. 495–513, 517–31 (with discussion).

Describes composition of zinc, history of the industry, distribution of ores, processes, uses, world's production, &c. Some reference to position at outbreak of war and development during war in Great Britain and U.S.A.

Quin's Metal Handbook and Statistics.

Vide supra, p. 270.

Ridge, H. M. 'Review of the Spelter Situation,' in *Jl. Soc. Chem. Ind.*, Jan. 15, 1920 (vol. 39), pp. 6–7 (R).

Discusses technical improvements introduced during war, and outlook for the industry in Great Britain.

Smith, Ernest A. 'The Development of the Spelter Industry,' in *Jl. Inst. Metals*, 1916, No. 2 (vol. 16), pp. 118–95 (with discussion and correspondence).

Smith, Ernest A. (*cont.*)

Gives an account of the development of the industry before war in Great Britain and abroad, sources of supply of ore, processes, industrial uses, &c. Refers briefly to position and developments during war and discusses future prospects.

—— The Zinc Industry. Monographs on Industrial Chemistry, ed. by Sir Edward Thorpe. Longmans, Green & Co. 1918. 223 pp.

Describes development of the industry in Great Britain and abroad and position at outbreak of war, organization of the industry, sources of supply of ore, processes, &c., development during war and future prospects. Gives list of zinc-producing works in U.K. and statistics of prices in London market, 1900–17. Bibliography.

Vogel, Julius L. F. 'Tungsten : before, during, and after the War,' in *Organiser*, Ap. 1919 (vol. 24), pp. 439 and 451.

Describes position before war, steps taken on outbreak of war to produce tungsten, Government control and post-war position.

—— 'The Present Position of the Tungsten Industry,' in *Jl. Soc. Chem. Ind.*, Mar. 31, 1920 (vol. 39), pp. 103–4 (R).

Gives an account of development of tungsten industry in Great Britain during war and since, and discusses future outlook.

¶ *Trade Journals :*

Ironmonger.

Vide supra, p. 271.

Metal Bulletin.

Vide supra, p. 272.

5. OIL [1]

¶ *Acts of Parliament :*

Anglo-Persian Oil Co. (Acquisition of Capital) Act, 1914. 4 & 5 Geo. V. c. 37. 1 p.

Ibid. Amendment Act, 1919. 9 & 10 Geo. V. c. 86. 2 pp.

Petroleum (Production) Act, 1918. 8 & 9 Geo. V. c. 52. 2 pp.

Prohibits persons other than the Crown from getting petroleum and prescribes powers of Ministry of Munitions in this connexion.

¶ *Official Publications :*

Manuals of Emergency Legislation. War Materials Supplies Manual, 1st to 5th eds. (*Vide supra*, p. 84).

Contain Orders, notices, &c., *re* Petrol, in force at dates mentioned. (For earlier Orders, no longer in force, *vide* Defence of the Realm Manuals, *supra*, p. 84.)

Board of Trade. Profiteering Act, 1919. Motor Fuel, Report on, by a Sub-Committee of Standing Committee on Investigation of Prices. 1920, Cmd. 597. 10 pp.

Deals mainly with post-war situation (as regards petrol and benzole), e.g. operations of trade combinations, prices charged and profits, recommendations for Government control, &c. Gives pre-war, requisition, and post-control freight rates. Refers very briefly to work of Petroleum Pool Board during war.

—— *Bd. of Trade Jl.*, Feb. 7, 1918 (vol. 100), pp. 147–9. 'The Control of Petrol : Restriction of Supplies and Use.'

Gives an account of reasons for Government action with regard to restriction of supplies in 1916 and of operations of Petrol Committee and subsequently Petrol Controller's Dept. from Ap. 20, 1916 to Jan. 1918.

Department of Scientific and Industrial Research. Fuel Research Board. Fuel for Motor

[1] *Vide* also MINERALS : GENERAL, § K, 1, *supra*, pp. 303–6.

Transport, Memorandum on. H.M.S.O. 1920. 10 pp.

Describes present position as regards supplies of alcohol from home and Imperial resources, showing difficulties in the way of its substitution for motor spirit. Discusses alternative fuels for power purposes and makes recommendations regarding use of various coal products.

—— *Ibid.* Report of, for 1918 and 1919.

Vide supra, p. 309.

H.M. Geological Survey. Special Reports on the Mineral Resources of Great Britain. Vol. 7. Mineral Oil, Kimmeridge Oil-Shale, Lignites, Jets, Cannel Coals, Natural Gas. By A. Strahan, with contributions by J. Pringle. H.M.S.O. 1918. iv + 69 pp. 2nd. ed. 1920. iv + 125 pp.

A geological account of the sources of oil in England and Wales. Second edition gives some account of the boring for oil undertaken under auspices of Ministry of Munitions (Mineral Oil Production Dept.) and experiments in utilization of cannel coal for oil production.

Ministry of Munitions. Agreement between Ministry of Munitions and S. Pearson & Sons, Ltd., Sep. 10, 1918, for Management of Petroleum Development. 1918, Cd. 9188, vol. 15. 8 pp.

Gives terms of agreement whereby Petroleum Development Managers (S. Pearson & Sons, Ltd.) undertake as Government agents the prospecting, boring and development of thirty drilling areas.

—— Fuel Oil, production of, from home sources, Report of Committee on. 1918, Cd. 9128, vol. 10. 7 pp.

Discusses proposals contained in report submitted by Petroleum Research Dept. on production of fuel oil, considers steps taken by Ministry in connexion with carrying out the proposals, and makes recommendations regarding future action.

—— *M. of M. Jl.*, Oct. 1918 (vol. 2), pp. 299–300. 'Production of Fuel Oil in U.K.'

Describes progress made during war by Mineral Oil Production Dept. in increasing production of fuel oil from creosote, distillation of shales, &c.

H.M. Petroleum Executive. Agreement between M. Philippe Berthelot, Directeur des Affaires politiques et commerciales au Ministère des Affaires étrangères, and Sir John Cadman, Director-in-Charge of H.M. Petroleum Dept., Memorandum of. 1920, Cmd. 675. 4 pp.

Gives terms of agreement between Great Britain and France concerning the exploitation, output, transport, &c., of petroleum by French and British Governments and nationals in Rumania, Asia Minor, territories of the old Russian Empire, Galicia, French Colonies, and British Crown Colonies.

Treasury. Vote of Credit, Trading Accounts. 1920, Cmd. 1062. (*Vide supra*, p. 92.)

Pp. 71, 77–8 contain summary of receipts and payments and balance sheet at Mar. 31, 1919 of Ministry of Munitions with regard to boring for oil. Pp. 94, 101 give very brief account of agreement between Government and six oil companies forming the Petroleum Board, with regard to importation and distribution of petroleum products, and trading account and balance sheet of Board of Trade with regard to the same.

¶ *Books and Periodicals :*

Black, Sir Fredk. 'Some War Problems of Petroleum Supply,' in *Jl. Inst. Petroleum Technologists*, June 1919 (vol. 5), pp. 251–83.

Refers to difficulties connected with supply to Great Britain and describes official measures taken to meet them, especially with regard to supplies from U.S.A.

Brooks, Sydney. 'Great Britain, the Empire and Oil,' in *N.C.*, Oct. 1918 (vol. 84), pp. 689–701.

Discusses shortage of oil supplies, possibilities of home production and fate

of Petroleum Production Bills. Very critical of Government action.

Butterfield, W. J. A. 'Mineral Oil,' in *Reports of Progress of Applied Chemistry*, issued by Soc. of Chem. Industry, 1917 (vol. 2), pp. 69–83.

Gives descriptions, mainly technical, of researches made and developments in production and manufacture of mineral oil during the year, in Great Britain and the world. *Vide* also Cobb, J. W., Dunstan, A. E., and Philip, Arnold, *infra*.

Cadman, Sir John. 'The Oil Resources of the British Empire,' in *Jl. Roy. Soc. Arts*, July 30, 1920 (vol. 68), pp. 584–600 (with discussion).

Reviews oil production and consumption of U.K. from 1912 to 1918 and Scottish shale oil output for last eight years. Shows extent to which home production is now being promoted, noting results of recent developments. Gives an account of extent and results of oil working in various countries abroad in recent years.

Chemical News, July 7, 1916 (vol. 114), p. 8. 'The Scottish Shale-Oil Companies.'

Discusses briefly profits and operations of companies during past year, and future prospects.

Cobb, J. W. 'Mineral Oils,' in *Reports of Progress of Applied Chemistry*, 1916 (vol. 1), pp. 61–6.

Similar to article by Butterfield, W. J. A., *supra*.

Dunstan, A. E. 'Mineral Oils,' in *Reports of Progress of Applied Chemistry*, 1919 (vol. 4), pp. 66–83 and 1920 (vol. 5), pp. 71–90.

Similar to article by Butterfield, W. J. A., *supra*.

Engineer, Mar. 9 and 23, 1917 (vol. 123), pp. 221–2, 274–5.

Gives an account of production methods in Scottish shale-oil industry. Mainly technical.

Engineering Review. (1) Aug. 1916 (vol. 30), pp. 38–40. 'The Problem of Petrol and its Alternatives.' (2) July and Aug. 1920 (vol. 34), pp. 5–7, 31–3. 'Alcohol—the New Motor Fuel.'

(1) Refers to rise in prices before and during war and discusses possible future supply of alternative fuels and their advantages and disadvantages. (2) Discusses prospects as regards supply of petrol, possibilities of alcohol as motor fuel, sources of supply and obstacles to development.

Greene, J. A. (Ed.). A Treatise on British Mineral Oil. With Foreword by Sir Boverton Redwood. C. Griffin & Co. 1919. xi + 233 pp.

A series of articles by E. H. Cunningham Craig and others, dealing with sources and modern production and refining processes in Great Britain and with practical experimental work carried on in recent years to further development of home mineral oil industry by utilization of cannel coal and allied minerals. Aims at presenting all the most recent information, in view of the need, caused by war, of establishing a new home industry. Gives brief review of official and unofficial steps taken since the war to promote its exploitation. Appx. contains reports to War Cabinet (1918 and 1919) by Committee of Institution of Petroleum Technologists, on production of oil from cannel coal and allied minerals, &c.

Institution of Petroleum Technologists, Journal of. Quarterly. 17 Gracechurch Street.

Consists almost entirely of technical articles. And *vide* article by Black, Sir Frederick, *supra*.

Lidgett, A. Petroleum. Pitman's Common Commodities and Industries Series. Sir J. Pitman & Sons. 1919. 168 pp.

Small, popular book, showing value of petroleum as a commercial asset. Gives brief account of British petroleum fields and measures taken since 1914 to promote their exploitation, and a technical description of working of Scottish oil-shale.

Nature, Feb. 28, 1918 (vol. 100), pp. 506–7. 'A New British Oil Industry.'

Refers to attempts made during war to develop home sources of supply and to need for further development.

Oil and Petroleum Manual, 1915, &c. By Walter R. Skinner.

Give lists of oil companies with financial and other particulars. Prefaces contain very brief reference to effect of war. Manuals for 1916, &c.. show monthly production figures for the year of principal English producing companies throughout the world.

Philip, Arnold. 'Mineral Oils,' in *Reports of Progress of Applied Chemistry*, 1918 (vol. 3), pp. 63–85.

Similar to article by BUTTERFIELD, W. J. A., *supra*.

Skinner, W. R. *Vide* OIL AND PETROLEUM MANUAL, *supra*.

Society of Chemical Industry, Journal of, Dec. 16, 1918 (vol. 37), pp. 467–8 (R). 'The Scottish Mineral Oil Industry.'

Describes revival of Scottish oil industry during war and discusses its prospects.

Steuart, D. R. 'The Shale-Oil Industry', in *Jl. Soc. Chem. Ind.*, July 31, 1916 (vol. 35), pp. 774–6.

A technical description of working of Scottish oil-shale. No comparisons with pre-war working, but account is interesting as being up-to-date.

℄ *Trade Journals :*

Glasgow Herald. Annual Supplements on Shipbuilding, Engineering and Commerce. (*Vide supra*, p. 252.)

Contain reports on prices, supply, developments, &c., of oil industry in Scotland.

Oil. Weekly. 2*d.*

Chiefly financial. Reproduces market price list of oil shares ; notes dividends paid, new companies and patents, home production developments and prospects, &c.

Oil and Colour Trades Journal. Weekly. 3*d.*

Very useful publication. Reproduces and discusses all Government Orders, &c., *re* oils, greases, colours, chemicals, matches, &c. Gives reports of Chambers of Commerce, proceedings of scientific societies. Short notes on other allied industries and on soap trade. Good reports on Scottish shale-oil industry from *Glasgow Herald*. Long market reports (with prices) from London and provinces, on oils, oilseeds, linseed, wax, tar products, &c. Gives company reports and news, oil share market prices. Notes inventions, new processes, &c. Short yearly reviews on various allied industries in January numbers.

Oil News. Weekly. 1*d.*

Reproduces, with criticisms, Government Orders, discussions in Parliament, &c. Follows progress of British oil output and methods, developments in use of oil as a propellant. Gives weekly production figures of British companies abroad, financial reports, home oil prices and share-market quotations. Contains a good deal of information on foreign industrial conditions and outputs.

Petroleum Review. Contd. from Jan. 11, 1918 as *Petroleum Times*. Weekly. 6*d.*

Follows progress in British oil-producing industry at home and abroad. Scottish shale-oil industrial conditions and output. Company reports, market prices. Yearly review of imports and prices. Critical of Government policy and measures. Contains a good deal of foreign information.

6. QUARRIES AND REFRACTORIES[1]

℄ *Official Publications :*

H.M. Geological Survey. Special Reports on Mineral Resources of Great Britain. Vol. 6. Refractory Materials : Ganister and Silica Rock—Sand for Open-hearth Steel Furnaces—Dolomite, Resources and Geology. H.M.S.O. 1918. vi + 232 pp.

Gives an account of the sources of re-

[1] *Vide* also MINERALS : GENERAL, § K. 1, *supra*, pp. 303–6.

H.M. Geological Survey (*cont.*)

fractory materials, geology, &c., with particulars of individual works.

—— *Ibid.*, Vol. 16. Refractory Materials: Petrography and Chemistry. By Herbert H. Thomas, A. F. Hallimond, and Ernest G. Radley. H.M.S.O. 1920. iv + 115 pp.

Deals with texture, composition and suitability for manufacture of refractory bricks.

Home Office. Quarries in U.K., List of, for 1918. H.M.S.O. 1920. 533 pp.

Gives a list of quarries, with kind of mineral worked, number of persons employed, &c.

¶ *Books and Periodicals :*

Boswell, P. G. H. A Memoir on British Resources of Refractory Sands for Furnace and Foundry Purposes.

Vide supra, p. 268.

Ceramic Society. *Transactions.*

Vide supra, p. 266.

Hatch, F. H. The Iron and Steel Industry of U.K. under War Conditions.

Vide supra, p. 269.

Rees, W. J. 'Glass, Refractory Materials, Ceramics and Building Materials,' in *Reports of Progress of Applied Chemistry*, issued by the Soc. of Chem. Industry, 1917 (vol. 2), pp. 204–41. 'Glass, Refractories,' in *Ibid.*, 1918 (vol. 3), pp. 184–208. 'Refractories,' in *Ibid.*, 1919 (vol. 4), pp. 178–88.

Gives technical account of researches and developments.

Rosenhain, Walter. Glass Manufacture.

Vide supra, p. 265.

Turner, W. E. S. 'Refractory Materials,' in *Reports of Progress of Applied Chemistry*, 1920 (vol. 5), pp. 203–14.

Similar to articles by W. J. Rees, *supra*.

¶ *Trade Journals :*

Brick and Pottery Trades Journal.

Vide supra, p. 268.

Pottery Gazette.

Vide supra, p. 268.

Quarry. Monthly. 6*d.*

Reports on the industry from quarrying centres, company reports, technical articles, &c.

IV. TRANSPORT

A. GENERAL

¶ *Act of Parliament :*

Ministry of Transport Act, 1919. 9 & 10 Geo. V. c. 50. 30 pp.

¶ *Official Publications :*

Committees. Transport, Select Committee on. 1st and 2nd Reports, with proceedings of Committee and Minutes of Evidence. Index and Digest of Evidence. 1918, Nos. 130, 136; 130, 136–Ind., vol. 4. xxxviii + 200 pp. — *Ibid.* (Irish Sub-Committee). Minutes of Evidence with Apps., Index and Digest of Evidence. Nos. 130, 136; 130, 136 – Ind., vol. 4. iv + 403 pp.

Deals with canals, railways, roads, docks and harbours (*vide infra*, pp. 335, 337, 347, 353).

—— Transport (Metropolitan Area), Select Committee on. Report, with proceedings of Committee, Minutes of Evidence and Apps. 1919, No. 147. 446 pp.

Vide infra, pp. 338, 347.

Scotland. Rural Transport (Scotland), Committee on. Report. 1919, Cmd. 227. 54 pp. Supplementary Report. 1920, Cmd. 987. 40 pp. and map.

Deals with proposals for improved means of communication (railways, roads and motor transport, steamer services, &c.).

B. AVIATION

¶ *Acts of Parliament :*

Air Force (Constitution) Act, 1917. New Ministries and Secretaries Act, 1916.

Vide supra, pp. 75, 76.

Air Navigation Act, 1920. 10 & 11 Geo. V. c. 80. 10 pp.

¶ *Official Publications :*

Air Ministry. Aerial Navigation, Convention for regulation of, Oct. 1919. 1920, Cmd. 670. 47 pp.

Deals with certificates of competency, air navigation above foreign territory, rules to be observed, prohibited articles of transport, State aircraft, institution of an International Commission for Air Navigation, &c. (English and French texts).

—— Civil Aviation, Government assistance for development of, Report of Advisory Committee on. 1920, Cmd. 770. 12 pp.

Notes Government policy, discusses various points relating to existing transport services, recommends State aid and describes proposed scheme. Appx. (pp. 11, 12) gives brief summary of the more important steps taken by the Air Ministry for the assistance of civil aviation.

—— Civil Aviation, Half-yearly Reports on progress of.— (Report, Oct. 1, 1919–Mar. 31, 1920) 1920, Cmd. 800. 23 pp.— (Report, April 1–Sep. 30, 1920) 1920, Cmd. 1073. 32 pp.

Deals with progress of civil aviation in British Empire, regulations made, air routes established, meteorological arrangements, commercial services in force (with statistics of flights made, goods and letters carried, &c.), expenditure incurred, research work, &c. Gives an account also of progress in foreign countries, international arrangements, &c.

Ministry of Reconstruction. Reconstruction Problems. No. 34. The Future of Aerial Transport. H.M.S.O. 1919. 20 pp.

Considers broadly the questions of national security and geographical and Imperial considerations. Notes briefly advances in development of aircraft since 1914 and compares respective merits, for commercial purposes, of airships and aeroplanes. Notes formation of Standing Advisory Committee on Civil Aviation and discusses main problems to be overcome.

C. CANALS

¶ *Official Publications :*

Board of Trade. Canal Control Committee. Handbook on Canals. H.M.S.O. 1918. 2nd ed., 1919. 41 pp.

Outlines scheme of control, steps taken to secure labour, &c. Gives lists of members of Canal Control Committee and Sub-Committees, of Canal Companies under Canal Control Committee and Railway Executive Committee, &c. Maps showing canals under different controls.

—— *Bd. of Trade Jl.*, Jan. 10, 1918 (vol. 100), pp. 30–2. 'British Canal Traffic : Operations of the Control Committee.'

Describes steps leading up to control, formation of Canal Control Committee and its Sub-Committees, and its activities (supply of labour, arrangements for carriage of goods by canal, &c.). Gives statistics of canal traffic, pre-war and in 1916.

Committees. Transport, Select Committee on. (*Vide supra*, p. 333.)

1st Report (2pp.) deals only with proceedings and report of Irish Sub-Committee; recommends certain canal improvements. 2nd Report contains short account of Government control and proposals for improvement of canal system; also further report of Irish Sub-Committee, recommending continuance of control for a time and giving number of authorities at present maintaining Irish canals and river navigation. Operations of Canal Control Committee, use of canals, &c., are described in evidence of FitzMaurice (Qs. 361–717), Dent (Qs. 1047–55), Potter (Qs. 1580–83), Williams (Qs. 1674 *et seq.*) and Martin (Qs. 3768–83, 3824–31, &c.). Evidence before Irish Sub-Committee deals with unsatisfactory state of canals (long existing).

¶ *Books and Periodicals :*

Pratt, Edwin A. British Railways and the Great War. (*Vide infra*, p. 345.)

Pt. VIII, Chap. 50, pp. 742–53, 'State Control of Canals'. Gives an account of steps leading up to control of canals, working and results of control, position on decontrol.

Preston, Sidney. 'English Canals and Inland Waterways,' in *Jl. Roy. Soc. Arts*, Mar. 19, 1920 (vol. 68), pp. 279–98 (with discussion).

Reviews pre-war attempts to improve canal system and discusses possible improvements. Touches on difficulties experienced by English canals during war and assistance given by Canal Control Committee. Gives statistics of mileage and traffic of Government-controlled and railway-owned canals, pre-war and 1918, &c., compensation paid to controlled canals and carrying companies, 1917–19. List of canals controlled by Government and mileage of canals in England under different controls.

¶ *Trade Journals :*

Canals and Waterways. Birmingham. Monthly. 1st No., June 1919.

Contains, *passim*, references to conditions during war (e. g. work of Transport Workers' Battalion, depreciation of canals, comparison of railway and canal charges, &c.)

Railway News. (*Vide infra*, p. 346.)

Contains, *passim*, good articles on canal traffic and improvements.

D. RAILWAYS

¶ *Official Publications :*

Law Reports. Railway and Canal Traffic Cases. Vol. 15 (1911–14). By R. Neville and W. A. Robertson. 1914. xviii + 361 pp. Vol. 16 (1915–20). By R. Neville, W. A. Robertson, and W. S. Kennedy. 1920. xiv + 418 pp. Sweet & Maxwell.

Reports of cases decided by the Railway

and Canal Commissioners for England, Scotland and Ireland.

Manuals of Emergency Legislation. (*Vide supra*, pp. 83–4.)

Contain Orders made *re* control of railways.

Board of Trade. Cost of running the Railways in Great Britain during the period of Government control (1914–18), Statement showing. 1919, Cmd. 147. 2 pp.

Gives receipts and expenditure for 1913 and period of control. (Figures repeated in 1919, Cmd. 402, *vide* under MINISTRY OF TRANSPORT, *infra*, p. 341.)

—— Railway Returns of U.K., Return relating to, for 1914. 1914–16, Cd. 8039, vol. 60. 2 pp.

Gives summary only of mileage of lines open, capital, receipts and expenditure, net income, &c. (No further Returns published during war.)

—— *Bd. of Trade Jl.*, Mar. 28, Ap. 4, 11, and 18, 1918 (vol. 100), pp. 367–8, 398–9, 429–30, 462–3. 'Working the Railways: The War Control. I. The Railway Executive Committee. II. Traffic Difficulties. III. The Shortage of Railway Wagons. IV. The Railway Munition Shops.'

Describes working of control, e.g. origin of Railway Executive Committee, their work on mobilization (numbers of troops, &c., carried), agreements made with companies by Government *re* compensation, &c., depletion of staff by enlistment, wagon shortage, locomotives sent abroad, regulation of passenger and goods traffic, difficulties in the way of pooling wagons and steps taken to meet the situation, work of railway shops in turning out munitions, provision of plant by Government, method of fixing contract price.

Committees. Transport, Select Committee on. Reports with Minutes of Evidence. (*Vide supra*, p. 333.)

2nd Report contains (pp. v–vii, ix–xiii, xvi–xxi) some account of Government control, proposals for improvement in organization, list of railways taken over by Government, &c. *Vide* also evidence of Sir H. Walker (Qs. 718–1024), Sir F. Dent (Qs. 1025–418 *passim*), and Sir F. Potter (Qs. 1445–669 *passim*), *re* control of railways; Mr. I. T. Williams (Q. 1674 and *passim*), *re* railway warehouses and cartage, pre-war and during war; and Mr. Martin, London Chamber of Commerce (Qs. 3729–923), *re* traders' views as to control.

—— Transport (Metropolitan Area), Report and Evidence of Select Committee on. (*Vide supra*, p. 334.)

Report deals with all forms of London traffic and question of fares. Contains no information *re* Government control. Minutes of evidence and Appendices contain incidental references to control of London railways, i.e. railway receipts and expenses, increase of fares, Government guarantees, wages, passengers carried, &c. (Qs. 565–7, 1808–21, 3346 *et seq.*, 4657 *et seq.*, 4758–9, 5848–9, 5912–35, 6023–58, 6249–74, 6337–44, 6364–87, 8468–93, 9651–8, and Apps. pp. 386–90, 402, 411–17, 442–6).

Ireland. Commissioners of Public Works in Ireland. Annual Reports. (*Vide infra*, p. 528).

Contain statistics of receipts and expenditure of certain Irish light railways assisted by the Commissioners.

—— Department of Agriculture and Technical Instruction. Banking and Railway Statistics, Ireland, for 1915. 1916, Cd. 8330, vol. 32. 19 pp.—*Ibid.* for 1916–17. 1918, Cd. 9119, vol. 25. 15 pp.

Contain statistics of gross traffic receipts of Irish railways in 1915 and 1916 respectively, compared with previous year.

Ministry of Food. *National Food Journal*, Ap. 9, 1919 (vol. 2), p. 377. 'Inland Transport Branch.'

Describes very briefly the work of the Inland Transport Branch of the Ministry of Food, dealing mainly with conveyance by rail.

Ministry of Reconstruction. Standardisation of Railway Equipment, Report of Advisory Council on. 1918, Cd. 9193, vol. 13. 13 pp.

Discusses difficulties in way of standardization and possibility of improvement.

Ministry of Transport. Conference with Members of Parliament. Statement by Sir Eric Geddes. 1919, Cmd. 493. 12 pp.

Discussion mainly of the question of congestion and wagon shortage, with some reference also to control during war.

—— Estimates, 1920–1. Statement as to Railways. 1920, Cmd. 654. 39 pp.

Gives estimates for 1920–1. Describes arrangements made by Government with Railway Companies during war (giving copies of correspondence), financial position at Armistice, machinery for investigation of compensation claims, position since Armistice as regards labour disputes, traffic congestion, &c., and present policy.

—— Future Organisation of Transport Undertakings in Great Britain and their relation to the State. Outline of Proposals. 1920, Cmd. 787. 5 pp.

Deals with proposals as to grouping, management, finance, development fund, rate-fixing machinery, machinery to regulate wages and working conditions, future powers of the State in relation to railways, excluding light railways.

—— Irish Railways, Powers exercised by Government Departments over. 1920, Cmd. 733. 21 pp.

Gives list of powers and duties transferred to Ministry of Transport from Board of Trade, Lord Lieutenant of Ireland, &c.

—— Light Railways. Report of proceedings of Board of Trade, Ministry of Transport and Light Railway Commissioners up to Dec. 31, 1919. 1920, No. 123. 14 pp.

Deals with development of light railways, applications made, schemes approved, &c.

—— London Traffic, Report of Advisory Committee on. 1920, Cmd. 636. 38 pp.

Deals mainly with post-war conditions. Urges need for establishment of Traffic Authority for London. Gives statistics of numbers of passengers on local railways, pre-war and in 1918 and 1919, figures showing net revenue position of Metropolitan District Railway in 1919 and position if control were removed, &c.

—— Rates Advisory Committee. Conveyance of Goods, Report on Rates for. 1920, Cmd. 525. 16 pp.

Deals almost entirely with post-war conditions (rates which should be charged). Refers to increase of some rates during war.

—— *Ibid.* Demurrage, Report *re*. 1920, Cmd. 526. 6 pp.

Deals with post-war situation.

—— *Ibid.* Rates, Tolls, and Charges, Railway, Report on interim revision of, July 1920. 1920, Cmd. 857. 10 pp.—Pt. II. Goods. 1920, Cmd. 886. 15 pp.

Discusses proposals of railway companies with regard to passenger fares generally, excursion and other cheap fares, workmen's fares, &c., and question of separate rates for Ireland, and makes recommendations with regard to their adoption. Also makes recommendations *re* alteration of dock and harbour dues, &c.

—— *Ibid.* Rates and Charges, Railway, Report on general revision of, 1920. 1920, Cmd. 1098. 54 pp.

Discusses main principles governing rates, tolls and charges for carriage of merchandise. Shows present position and recommends fixing of standard rates. Discusses distribution between companies of amounts raised, character and functions of tribunal to be set up as rate-fixing authority and various subsidiary questions.

—— Rates, Railway, Revision of. Replies received from certain Associations to questions addressed to them by Minister of Transport. 1920, Cmd. 682. 19 pp.

Deals with principles that should be adopted as future basis of rates and charges. Contains list, drawn up by Federation of British Industries, of restrictions imposed by Railway Companies during war and since continued, which are asserted to be prejudicial to trade.

—— Results of Working the Railways during periods of Government control in Great Britain (Aug. 5, 1914 to Aug. 31, 1919) and Ireland (Jan. 1, 1917 to Aug. 31, 1919), Statement showing. 1919, Cmd. 402. 13 pp.

Repeats and extends figures given in Cmd. 147 (*vide* under BOARD OF TRADE, *supra*). Statement of receipts and expenditure include all controlled businesses of the railway companies (steamboats, hotels, &c.).

—— Results of railway working in 1919–20, Statement of, with estimate of receipts and expenditure for 1920–1. 1920, Cmd. 815. 12 pp.

Gives statistics separately for Great Britain and Ireland.

Railway and Canal Commission. Annual Reports.—(Report, 1914) 1914–16, Cd. 7847, vol. 34. 33 pp. — (Report, 1915) 1916, Cd. 8255, vol. 15. 18 pp. — (Report, 1916) 1917–18, Cd. 8584, vol. 18. 17 pp. —(Report, 1917) 1918, Cd. 9007, vol. 13. 7 pp. — (Report, 1918) 1919, Cmd. 177. 7 pp.—(Report, 1919) 1920, Cmd. 717. 7 pp.

Contain particulars of cases heard before the Commission.

¶ *Books and Periodicals :*

Acworth, W. M. 'Railway Nationalisation,' in *Q. R.*, July 1919 (vol. 232), pp. 153–76.

Gives brief account of Government control and comparison of position of railways before war and at present. Argues in favour of nationalization and discusses how process is to be carried through.

—— 'The Problem of Railway Reconstruction,' in *N. R.*, Oct. 1919 (vol. 74), pp. 256–64.

Discusses extent to which present situation of British railways is due to the war. Considers proposals for improvement, and concludes in favour of drastic economies in working. Recommends adoption of Continental and American methods and criticizes Government methods of solving the problem.

—— 'The Position and Prospects of the Railways,' in *C. R.*, Nov. 1919 (vol. 116), pp. 504–10.

Discusses methods of control of railways during war and compares with American methods, e. g. as to publication of statistics and charging for services rendered to Government. Discusses gain to Government resulting from its bargain with the Companies.

Allen, J. E. 'Railway Fares.' *Vide* BRITISH ASSOC., *infra.*

British Assoc. for Advancement of Science. Industry and Finance. Edited by A. W. Kirkaldy. Sir Isaac Pitman & Sons. 1918. viii + 371 pp.

Appx. (pp. 357–62) on 'Railway Fares,' by J. E. Allen. Argues that raising of fares was unjust in incidence and not logically carried out.

Carlisle, James. 'Economics of Inland Transport,' in *Q. R.*, July 1919 (vol. 232), pp. 90–109.

Argues that experience during war does not point to advantage of State ownership.

Carnegie Endowment for International Peace. War Administration of the Railways in U.S.A. and Great Britain. *Vide* DIXON, F. HAIGH and PARMELEE, J. H., *infra.*

Dixon, F. Haigh, and **Parmelee, J. H.** War Administration of the Railways in U.S.A. and Great Britain. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War. Edited by David Kinley. Oxford University Press, New York. 1918. x + 155 pp.

Pt. II (pp. 71–127 and Apps.) deals with Great Britain. Gives a general outline of the scheme under which railways operated since Aug. 1914. Describes wages and working conditions and alterations in freight and passenger rates. Discusses financial results, comparing profit and loss accounts of the 25 principal railways and their dividend payments between 1913 and 1916 and prices of their stocks July 1914 and Dec. 1917.

Edinburgh Review, Jan. 1917 (vol. 225), pp. 84–103. 'The Future of English Railways,' by X.

Gives an account of the arrangement under which railways have been taken over by Government, compares English railways with those of U.S.A., France, and Germany as regards rates, &c. Describes effects of war and discusses what future relations will be between Government and railways.

Engineer, Nov. 30, Dec. 14, 21, and 28, 1917 (vol. 124), pp. 475–6, 513–14, 535–6, 565. 'The Future of British Railways.'

Exposes problems connected with post-war management of railways and makes suggestions for meeting expected difficulties and for possible economies in working.

Engineering and Industrial Management, Nov. 11, 1920 (N.S., vol. 4), pp. 623–4. 'Government Control of Railways.'

Surveys position of railways under present system of State control and explains difficulties which prevent an early return to pre-war administration. Explains and criticizes Government proposals *re* future grouping system.

Federation of British Industries. 3rd Annual Report, June 30, 1919. F.B.I., 39 St. James's Street.

Pp. 17–18. Deals with railway question. Refers to innovations introduced by railway companies under cloak of State control and negotiations with Government to get restrictions removed, Railway Bill drawn up on behalf of Federation, action taken by Federation with regard to Ministry of Transport Bill and amendments secured.

Financial Review of Reviews, June 1916 (vol. 10), pp. 183–92. 'Home Railway Problems.' (Editorial Article.)

Shows how road competition has affected the railways during war with regard to both passenger and heavy goods traffic. Shows how Government agreement with railways is financially prejudicial to the latter and how rise in cost of raw materials will affect them after war.

Hatch, F. H. The Iron and Steel Industry of U.K. under War Conditions. (*Vide supra*, p. 269.)

Chap. IX (pp. 60–65) describes work of Transport Section of Iron and Steel Production Department, steps taken to arrange for transport of ironstone, &c., commandeering of wagons, construction of new wagons, repairs, formation of Mineral Traffic Control Committee and its work in regulating distribution of supplies, &c.

Jennings, H. J. 'Home Railways during the War,' in *N. C.*, Ap. 1915 (vol. 77), pp. 920–33.

Discusses railway returns for 1914 and extent of Government control.

—— 'Our Insolvent Railways,' in *F. R.*, Sep. 1920 (vol. 108), pp. 468–79.

Describes unsatisfactory financial state of railways under war control. Discusses critically estimates for future working and proposals of Ministry of Transport for system of indirect control. Objects to a State service and makes suggestions for future working.

Labour Year Book, 1919. (*Vide infra*, pp. 369–70.)

Pp. 164–5. Describes system of control of railways and discusses its workings. Pp. 174–7 ('The present and future control of the Railways', by Emil Davies) discusses benefits obtained by control and future prospects.

McKenzie, F. A. British Railways and the War. Menpes Printing and Engraving Co. 1917. 32 pp.

Gives short account of work of the railways in transporting troops, &c., wages movements, economies effected as result of combined action, &c.

Murray, Henry. The Railway Swindle. Grant Richards. 1916. 160 pp.

A plea for reform of British railway system. Criticizes, in a somewhat personal spirit, mal-administration and general wastefulness of the system and causes of its breakdown under war conditions. Lays stress on neglect to develop strategic importance of railways and urges establishment of goods clearing-houses (Gattie scheme).

Parmelee, J. H. *Vide* DIXON, F. H. and PARMELEE, J.H., *supra*.

Pratt, Edwin A. British Railways and the Great War : Organization, Efforts, Difficulties, and Achievements. 2 vols. Selwyn & Blount. 1921. 1194 pp.

A detailed history of railway administration during war. Gives an account of pre-war organization, lines taken over by State, constitution and methods of working of Railway Executive Committee, financial arrangements, organization of troop and ambulance traffic, restrictions on civilian travel, relations between railways and coasting services, regulation of Government and Government contractors' traffic, constitution and working of Ministry of Munitions Transport Branch, working of Inter-Departmental Committee of representatives of Government Departments and Railway Executive Committee, taking over of Railway Companies' steamships, Admiralty traffic, war manufactures in railway workshops, supply of rolling stock, &c., for France, pooling of wagons, labour questions, war work of individual railways, decontrol and reorganization, &c.

Railway Year Book for 1915, &c. Railway Publishing Co.

Contain for each Company financial statistics (capital issued, summaries of expenditure and receipts, dividends, &c.), statistics of traffic, rolling stock, mileage, &c. Give details of Government control regulations. Note principal events and developments in railway history (e. g. provision of ambulance trains.)

Stock Exchange Official Intelligence. (*Vide infra*, p. 542.)

Gives yearly tables showing extreme fluctuations in price of certain railway ordinary stocks and shares during last ten years and percentage dividend paid during last fifteen years.

Times. Engineering Suppts. 1914, &c. (*Vide supra*, p. 242.)

Contain articles on railway engineering progress and developments. Yearly survey in January.

¶ *Trade Journal :*

Railway News and Railway Official Gazette. Weekly. 6*d*. Illustrated.

Useful publication. Contains a good deal of information as to position of railways during war, accounts of Government control, projects before Parliament, statistical reports (i.e. state of railway stock markets, weekly traffic returns wherever issued, &c.). Annual reports and accounts (condensed) of home railways, and full reports of annual general meetings. Long annual review on railways and finance given in January.

E. ROADS

¶ *Acts of Parliament :*

Local Government (Emergency Provisions) Act, 1916. 6 & 7 Geo. V. c. 12. 9 pp.

Pt. II, Sec. 20, prohibits establishment of new omnibus routes except where considered necessary for munition workers and others engaged on war service.

Tramways (Temporary Increase of Charges) Act, 1920. 10 & 11 Geo. V. c. 14. 3 pp.

¶ *Official Publications :*

Manuals of Emergency Legislation. Defence of the Realm Manual, 6th ed., Aug. 31, 1918. (*Vide supra*, p. 84.)

Includes Orders made by Bd. of Trade *re* horses and road transport.

Board of Trade. Handbook on Road Transport. H.M.S.O. 1918.

Contains information *re* constitution and functions of Road Transport Board, with maps.

—— Profiteering Act. Road Transport Rates, Findings by Committee on. 1920, Cmd. 549. 6 pp.

Shows existence of strong combination. Gives increase of rates during war.

—— *Bd. of Trade Jl.*, Mar. 21, 1918 (vol. 100), pp. 335–6. 'Horse Supplies and Transport.'

Short article describing work of Controller of Horse Transport.

—— *Ibid.*, Ap. 18, 1918, p. 460. 'Road Transport Board.'

Gives membership and terms of reference of the Board and describes local organization.

Committees. Transport, Select Committee on. (*Vide supra*, p. 333.)

2nd Report contains (p. viii) short account of Government control of road transport. A description of road motor services of G. W. R., mainly pre-war, is given by F. Potter (Qs. 1445 *et seq.*), and an account of the Road Transport Board, reasons for its establishment, its constitution and work, and possibility of development of road transport after war, by Sir Evan Jones (Qs. 3266–388).

—— Transport (Metropolitan), Committee on. (*Vide supra*, p. 334.)

Contains (Qs. 4625 *seq.* and pp. 404 *seq.*), an account of effect of war on Omnibus Companies, e.g. enlistment of employees, training school used by War Office, &c.

Home Office. London General Omnibus Company. Report on Fares and Working Expenses. 1919, Cmd. 209. 8 pp.

Mainly *re* post-war conditions. Gives figures as to increase of working expenses during war and refers to commandeering of omnibuses by War Office.

Ministry of Food. *Nat. Food Jl.*, Sep. 11, 1918 (vol. 2), p. 9. 'Food Distribution and Road Transport.'

Describes work of Ministry of Food, in making recommendations to Petrol Control Department for issue of licences to food trades, and establishment of Road Transport Board.

Ministry of Transport. Lights on Vehicles, Departmental Committee on. 1st and 2nd Interim Reports. 1920, Cmd. 659. 10 pp.

Discusses what regulations should be made and how far present emergency Orders should be retained.

Road Board. Abstract Accounts of Road Improvement Fund, with Report of Comptroller and Auditor-General. — (Acct., 1914–15) 1914–16, No. 304, vol. 38.— (Acct., 1915–16) 1916, No. 110, vol. 17.—(Acct., 1916–17), 1917–18, No. 130, vol. 19. — (Acct., 1917–18) 1918, No. 123, vol. 15.— (Acct., 1918–19) 1919, No. 187.— (Acct., 1919–20) 1920, No. 206. 4 pp. each.

—— Annual Reports. — (Report, 1914–15) 1916, No. 114, vol. 15. 55 pp. — (Report, 1915–16) 1917–18, No. 119, vol. 18. 42 pp.— (Report, 1916–17) 1918, No. 94, vol. 13. 74 pp. — (Report, 1917–18) 1919, No. 192. 64 pp.

Contain information as to receipts and payments out of Road Improvement Fund, postponement of improvement schemes during war, special work of Road Board for War Office and other Government departments with regard to construction and repair of roads, work of Road Stone Control Committee, control of supplies of tar, applications for petrol and priority certificates for plant required by Highway Authorities, &c.

℄ *Trade Journal :*

World's Carriers and Carrying Trades' Review. Monthly. £1 1*s.* p. a. Illustrated.

Official organ of the British carrying trades. Has short notes on topical events and conditions. Reproduces Government Orders of interest to the trades (*re* horses, fodder rationing, &c.).

F. SHIPPING[1] (INCLUDING DOCKS AND HARBOURS)

¶ *Acts of Parliament :*

British Ships (Transfer Restriction) Act, 1915. 5 Geo. V. c. 21. 1 p.

Ibid., 1916. 6 & 7 Geo. V. c. 42. 2 pp.

¶ *Official Publications :*

Law Reports. China Mutual Steam Navigation Co. Ltd., *v.* Maclay (Nov. 1917). 1 K.B. 33. — Hudson's Bay Co. *v.* Maclay (Mar. 1920). 36 T.L.R. 469.

Powers of Shipping Controller contested. (For reports of other cases relating to maritime law, requisitioning, Prize Courts, &c., *vide supra*, p. 114.)

Manuals of Emergency Legislation. (*Vide supra*, pp. 83–4.)

Contain Orders, &c., made *re* requisitioning of shipping, War Risks Insurance, limitation of freights, increase of dock charges, Orders by Port and Transit Executive Committee, &c.; also agreements with War Risks Associations and standard policies under State Insurance scheme, and composition of Admiralty Transport Arbitration Board.

Admiralty. British Merchant and Fishing Vessels captured or destroyed by enemy, from Aug. 4, 1914 to Nov. 11, 1918, Return of. 1919, No. 199. 164 pp.

Contains list of vessels captured, &c. (by name). Also (pp. 162–4) tables showing number and gross tonnage of merchant and fishing vessels lost through enemy action, and number of merchant vessels damaged or molested for each month of the period named. (For complete figures of losses during war period, *vide* Cmd. 1089, under BOARD OF TRADE, *infra*.)

—— Royal Navy, Return of losses of ships of, and of auxiliary ships of, during period Aug. 1914 to Nov. 11, 1918. 1919, No. 200. 36 pp.

Gives by name lists of warships and of auxiliaries (hospital ships, store carriers, mine sweepers, colliers, &c.) lost.

Board of Trade. Acts of Parliament, Regulations, Orders, Instructions and Notices relating to Merchant Shipping, List of the principal, now in force (1915, &c.). Published annually. H.M.S.O.

Include separate lists of principal instructions, &c., issued by Board of Trade during the war.

—— Government War Risks Insurance Scheme. Agreements made between H.M. Government and the War Risks Insurance Associations, Text of. 1914–16, Cd. 7838, vol. 55. 28 pp.

—— *Ibid.* Results, Preliminary Statement of. 1919, Cmd. 98. 11 pp.

Describes the various schemes under which ships were insured by Government during war and gives provisional statement of financial results.

—— Navigation and Shipping of U.K., Annual Statement for 1917. 1919, Cmd. 327. xiv + 320 pp.—*Ibid.* for 1918. 1920, Cmd. 953. xiv + 306 pp.

Contain detailed tables of number and tonnage of vessels entered and cleared, number on register, number of mercantile vessels built, &c., with comparative tables for 1913–17 and 1914–18 respectively. (Annual statements for 1914, 1915 and 1916 not published).

[1] *Vide* also BLOCKADE AND TRADING WITH THE ENEMY, § III, A, 3, *supra*, pp. 113–24, and MARINE ENGINEERING AND SHIPBUILDING, § III, J, 3, c, *supra*, pp. 247–54. The U.S., Library of Congress, 'List of References on Shipping and Shipbuilding' (*vide* footnote, p. 247 n., *supra*) contains over 1000 references on shipping (history, American shipping generally, freight rates, dues and port charges, insurance, &c.) and includes references on Great Britain.

Board of Trade (*cont.*)

—— Pilotage in U.K., Abstract of Returns relating to, for 1913–18. 1920, No. 79. 16 pp. — *Ibid.* for 1919. 1920, No. 246. 10 pp.

Give statistics, for each port in U.K., of number of licensed pilots, average earnings per pilot, number of ships piloted, &c., for each year 1913–18 and 1919 respectively.

—— Prices of Commodities, causes of increase of, since beginning of the war, Departmental Committee on. 2nd and 3rd Reports. 1917–18, Cd. 8483, vol. 18. (*Vide supra*, p. 179.)

Discusses (pp. 9–12) question of freight charges. Gives statistics (based on information from Dept. of Labour Statistics) of rates of freight for various voyages, 1914–16, discusses causes of rise and gives brief account of Government control.

—— Shipping and Shipbuilding Industries, position of, after the war, Departmental Committee on. 1st, 2nd, and Final Reports. 1918, Cd. 9092, vol. 13, 156 pp.

Contain considerable amount of information as to general organization and position of British shipping before war and prospects after war. 1st report deals only with emigrant traffic before war. 2nd report deals with shipbuilding and marine engineering, giving a general description of the industries before war and discussing probable position (e. g. as to supply of materials, &c) after war; contains incidental references to effects of war, e. g. enlargement of marine engine works, standardization, &c. Final report discusses reconstruction of mercantile marine, international competition and navigation policy; contains some account of effects of war on shipping and shipbuilding.

—— Shipping Casualties and loss of life, Return of, for period ended Dec. 31, 1918. 1920, Cmd. 1089. v + 63 pp.

Gives, for the half-year July 1–Dec. 31, 1914 and each year 1915–18, statistics of losses at sea of merchant and fishing vessels registered in U.K. and deaths of seamen and passengers (apart from casualties and loss of life due to Acts of War). Gives also, for the whole period (Aug. 4, 1914 to Dec. 31, 1918), total of British registered vessels totally lost by enemy action and total of lives lost by Act of War in British merchant and fishing vessels.

—— Trade and Navigation of U.K. Monthly Accounts. (*Vide supra*, p. 110.)

Give entrances and clearances of ships with cargoes (distinguishing nationality) from and to various countries, also arrivals and departures in coasting trade. Figures given separately for the month and for expired portion of the year. Figures for two previous years given for comparison. (From Feb. 1917 to Oct. 1918 inclusive, figures of entrances and clearances are omitted, but totals will be found month by month in file for 1919 as figures for the two previous years.)

—— *Bd. of Trade Jl.*, Feb. 21, 1918 (vol. 100), pp. 206–7. 'Controlling Ships' Stores: Result of a Year's Work.'

Short article describing steps taken by Board of Trade, &c., to control supplies of food, drugs, clothes, &c., for neutral vessels and food for British and Allied ships.

—— *Ibid.*, Feb. 28, 1918 (vol. 100), pp. 238–9. 'War Risks Insurance of Cargoes: Abolition of the Government Flat Rate.'

Describes new scheme of Government insurance and gives reasons why it has been found necessary to modify original plan.

—— *Ibid.*, Feb. 28, 1918, pp. 244–5. 'Restrictions of Imports: Effect in Saving Tonnage.'

Describes control exercised by Dept. of Import Restrictions.

—— *Ibid.*, Dec. 19, 1918 (vol. 101), pp. 773–4. 'Allied Maritime Transport Council.'

Describes constitutions and functions of the Council (allocation of tonnage for food, munitions, &c.).

Commissions, Royal. Supply of Food and Raw Materials in time of War, Royal Commission on. Vol. 1, Report. Vol. 2, Minutes of Evidence. 1905, Cd. 2643, 2644, vol. 39. xii + 204 pp., xii + 476 pp. Vol. 3, Appendices. 1905, Cd. 2645, vol. 40. xvi + 356 pp.

Is of interest as showing anticipations then entertained as to effect of war on trade and shipping, and in connexion with genesis of War Risks Insurance Scheme.

—— Wheat Supplies, Royal Commission on. 1st Report. 1921, Cmd. 1544. (*Vide supra*, p. 187.)

Contains, *passim*, accounts of arrangements made, during war and since, for shipment of grain to U.K. and transport difficulties encountered, and arrangements with allied and other countries. Statistics of quantities carried by tonnage of each nation under Wheat Executive Agreement.

Committees. Imperial Defence, Committee of. Insurance of British Shipping in time of War, Report of Sub-Committee on. 1914, Cd. 7560, vol. 70. 20 pp.

Pre-war (dated Ap. 30, 1914). Recommends steps which should be taken to meet possibility of war.

—— Transport, Select Committee on. (*Vide supra*, p. 333.)

1st and 2nd Reports contain reports of Irish Sub-Committee recommending establishment of Government Harbour Department and improvements in harbours. Evidence of Butterworth (Qs. 2060 *et seq.*), Rober (Qs. 3389 *et seq.*), and Dent (Qs. 1056–69) deals with docks and harbours in England; relates mainly to pre-war conditions but the two latter refer to Government assistance and traffic during war. (Evidence given before Irish Sub-Committee deals mainly with deficiencies (existing before war) and proposals for development of harbours; only occasional reference made to effect of war, e. g. closing of harbours, effect on revenue from tolls.)

Foreign Office. Belligerent Merchant Vessels whose status has been changed as result of an Act of War, Correspondence between H.M. Govt. and Netherlands Govt. respecting treatment of, by latter. 1918, Cd. 9026, vol. 26. 34 pp.

—— Requisitioning by H.M. Govt. of British-owned or chiefly British-owned ships under neutral flags, Correspondence with Netherlands Govt. regarding. 1918, Cd. 8986, vol. 26. 8 pp.

—— Requisitioning of Dutch ships by Associated Govts., Correspondence with Netherlands Govt. respecting. 1918, Cd. 9025, vol. 26. 11 pp.

Ireland. Dept. of Agriculture. Banking, Railway, and Shipping Statistics, 1915 and 1916–17. 1916, Cd. 8330, vol. 32. 19 pp. 1918, Cd. 9119, vol. 25. 15 pp.

Give statistics of number and tonnage of vessels at Irish ports engaged in coasting and foreign trade, 1907–14 and 1907–16.

Ministry of Labour. Industrial Courts Act. Transport Workers, Report by a Court of Inquiry concerning. 1920, Cmd. 936, 937.

Vide infra, p. 428.

Ministry of Shipping. Appropriation Accounts, with Report of Comptroller and Auditor-General, for 1917–18 and 1918–19. — 1919, No. 42. 6 pp. — 1920, No. 60. 9 pp.

Summary of accounts and comments of Comptroller with regard to operations of Ministry of Shipping. (For accounts of receipts and payments for these years, *vide* Vote of Credit Appropriation Accounts, No. 97 of 1919 and No. 116 of 1920, *supra*, p. 91.)

—— Cost, Work, and Staff of the Ministry of Shipping and the Ministry of Munitions, Memorandum on. 1920, Cmd. 1055. 14 pp.

Contains (pp. 2–7) statement of receipts

and expenditure of Ministry of Shipping 1919–20 and 1920–1, an account of work since Armistice, and present work and staff.

Port of London Authority. Annual Reports for 1914–15 to 1919–20. Pubd. by Port of London Authority. The Reports for 1914–15, 1918–19, and 1919–20 are also published as Sessional Papers (1914–16, No. 333, vol. 27; 1919, No. 184; 1920, No. 195).

Describe effect of war on trade of the port, extension of storage accommodation, special services rendered to Government, war bonuses to staff, &c. Give statistics of shipping entering and leaving the port.

War Cabinet. (1) Mercantile Losses by enemy action and marine risk, (2) Mercantile Shipbuilding Output, (3) Enemy Vessels captured and brought into service, Statement of, for U.K. and for the world, for period Aug. 1914 to Dec. 1917. 1918, Cd. 9009, vol. 22. 8 pp.—Supplementary statement for period Aug. 1914 to Oct. 1918. 1918, Cd. 9221, vol. 22. 4 pp.

Contain tables showing losses, &c., for each quarter.

¶ *Books and Periodicals :*

Brooks, Sydney. 'The Problem of British Shipping,' in *N. C.*, Dec. 1918 (vol. 84), pp. 1116–29.

Discusses effect of war on British shipping (losses and output, decline in efficiency, relative increase of foreign output, evil effect of Government control, &c.).

Carnegie Endowment for International Peace. Allied Shipping Control. *Vide* SALTER, J. A., *infra.*

—— Influence of the Great War upon Shipping. *Vide* SMITH, J. R., *infra.*

Chamber of Shipping of U.K. Annual Reports and Reports of proceedings at annual meetings, 1914–15, &c. Witherby & Co.

Reports note briefly all events affecting shipping, including war measures. Presidential addresses touch on all matters connected with attitude and activities of the Chamber, criticizing Government action. Position of shipbuilding discussed. Appx. to Report for 1919–20 contains statistics and diagrams giving a general survey of shipping and trade during war, e. g. tonnage statistics, entries and clearances of British and foreign shipping in U.K. ports, freight rates, seamen's wages, cost of building steamships, &c.

—— and **Liverpool Steam Ship Owners' Association.** Report of Committee on measures requisite for maintenance of British Mercantile Marine. 1917. Vol. 1. xxix +74 pp. Vol. 2. 132 pp. Chamber of Shipping, 28 St. Mary Axe.

Discusses position of U.K. as regards international trade and shipping, compared with foreign nations, prior to war, and makes recommendations with regard to future policy. Consists largely of tables and graphs, prepared from official statistics (pre-war).

Committee of Imperial Defence. History of the Great War. The Merchant Navy. *Vide* HURD, ARCHIBALD, *infra.*

—— *Ibid.* Seaborne Trade. *Vide* FAYLE, C. E., *infra.*

Crammond, Edgar. The British Shipping Industry. Constable & Co. 1917. 67 pp.

Describes state of British shipping industry before and during war. Discusses effect of war on tonnage, freight rates and finances of shipping companies.

—— 'The Economic Condition of U.K. after three and a half years of War,' in *Jl. Roy. Soc. Arts*, Aug. 9, 1918 (vol. 66), pp. 593–602.

Pp. 593–6. Deals with shipping. De-

scribes effect of war on shipping and measures taken. Estimates gross earnings, working expenses and profits of shipping industry for 1916.

Fayle, C. Ernest. Seaborne Trade. Vol. 1. The Cruiser Period. [History of the Great War. Based on official documents by direction of the Historical Section of the Committee of Imperial Defence]. John Murray, London. Longmans, Green & Co., New York. 1920. xviii + 442 pp. With maps in case.

History of the effect of war on ocean trade and shipping, attack and defence of commerce, measures taken to encourage trade and shipping.

Fortnightly Review, Mar. 1916 (vol. 99), pp. 538–50. 'The Shipping Scandal : the Profits of War,' by 'Nauticus'.

Blames Government for rise in freight rates. Deprecates absence of State control over shipping, sales of ships to neutral countries and profiteering of ship-owners.

Garvin, J. L. The Economic Foundations of Peace. Macmillan & Co. 1919. xxiv + 574 pp.

Pp. 62–8, 140–8. Gives an account of working of Inter-allied Maritime Transport Council and discusses position since Armistice as regards shipping.

Good, T. 'The Shipping Trade and the War,' in *Cassier's Engineering Monthly*, Oct. 1914 (vol. 47), pp. 215–19.

Discusses effect of war on shipping, objections of ship-owners to State Insurance scheme, lack of facilities for international exchange as affecting shipping especially.

Hannay, David. 'Ships and Empire,' in *Ed. R.*, Jan. 1919 (vol. 229), pp. 62–76.

Quotes figures showing losses and new construction during war. Discusses position of British shipping relatively to competitors as result of war.

Hill, Sir Norman. Report on the Shipping of U.K. employed in Ocean Trade. *Vide* Liverpool Steam Ship Owners' Association, *infra*.

—— 'The British Mercantile Marine in its relation to the State,' in *Trans. Manchester Stat. Soc.*, 1917–18, pp. 117–30.

Deals with relation of the State to shipping before war, also control during war.

Hilton, John. 'Merchant Shipping and State Control,' in *Ed. R.*, Ap. 1918 (vol. 227), pp. 359–82.

Analyses economic factors of shipping industry, describes and criticizes growth of Government control and advocates immediate removal of control after war.

Hopkins, Charles P. 'National Service' of British Merchant Seamen, 1914–19. Geo. Routledge & Sons. 1920. 206 pp.

Gives account of organization of the shipping industry and conditions of service before war and developments during war and since Armistice with regard to labour questions.

Hurd, Archibald. 'Man-power and Sea-power : Our Greatest Peril,' in *F. R.*, Jan. 1917 (vol. 101), pp. 45–60.

Discusses shrinkage of tonnage attributable not only to submarine campaign but to scarcity of labour through recruiting.

—— 'The Paralysis of Shipping,' in *F. R.*, Ap. 1920 (vol. 107), pp. 584–97.

Discusses evils of nationalization of shipping and defends ship-owners from criticism levelled at them. Describes present paralysis and imputes the blame to State control.

—— The Merchant Navy, vol. 1. [History of the Great War. Based on official documents by direction of the Historical Section of the Committee of Imperial Defence]. John Murray. 1921. xiv + 473 pp. With illustrations and maps.

Deals with shipping during war from standpoint of officers and men, encounters with submarines, experiences of crews captured or sunk, services of merchant vessels and seamen as naval auxiliaries, measures taken for protection of merchant shipping, &c.

Kirkaldy, Adam W. British Shipping, its History, Organisation and Importance. Kegan, Paul, Trench, Trübner & Co., London. E. P. Dutton & Co., New York. 1914. xx + 655 pp.

A handy summary of the position of British shipping in 1914, ownership, finance, legislation, construction, trade routes, ports and docks, &c., with a good bibliography.

Liverpool and London War Risks Association. Report for year ending Feb. 1919. 48 pp. L.L.W.R.A., 10 Water Street, Liverpool.

Gives an account of Government War Risks Insurance scheme during war, especially in connexion with the Association, seamen's compensation scheme, percentage losses of vessels entered in the Association and ocean-going shipping generally.

Liverpool Steam Ship Owners' Association. Annual Reports for 1914, &c. L.S.S.O.A., 10 Water Street, Liverpool.

Give short accounts of difficulties caused by war, Government measures, Parliamentary Bills, &c., noting attitude of the Association; statistics of foreign trade and of freights and prices. Report for 1919 contains statistics of tonnage entrances into U.K. ports, showing employment of British and foreign shipping, the Association tonnage figures, &c., for 1913–19.

—— Report by Secretary (Sir Norman Hill) on the Shipping of U.K. employed in Ocean Trade, Oct. 1915. 81 pp.

Deals with shipping resources of U.K., effect of first twelve months of war on trade and shipping, effect of freights on prices, &c.

—— Oversea Trade under War Conditions. Address delivered at General Meeting by Chairman (A. A. Booth), Sep. 15, 1915.

Based on preceding report. Discusses effect of war, value of commercial enterprise, and criticizes proposals for Government control.

—— and **Chamber of Shipping.** *Vide* CHAMBER OF SHIPPING, *supra*.

Lloyd's Register of Shipping for 1914–15, &c. Published annually. With Appx. (issued separately).

Contains detailed information concerning, as far as possible, all sea-going vessels in the world; lists of various classes of vessels, lists of shipowners with particulars of ships owned by them, &c. Appendices contain, *inter alia*, particulars of docks, harbours, and canals, statistics of number and tonnage and description of vessels of 100 tons and upwards added to and removed from merchant service register, &c. Apps. for 1917–18 and 1918–19 not issued. Appx. for 1919–20 gives total tonnage and number of ships launched annually from 1892 in every country and amount belonging to each country.

Maughan, Cuthbert. 'British Overseas Commerce in War Time,' in *Q. R.*, Jan. 1915 (vol. 223), pp. 252–65.

Deals with effect of the war on shipping and working of the War Risks Insurance scheme.

—— 'The Shipping Problem,' in *Q. R.*, Ap. 1916 (vol. 225), pp. 464–82.

Discusses rise in freights, action taken by Government, &c.

—— 'Shipping Prospects,' in *Q. R.*, Oct. 1919 (vol. 232), pp. 471–88.

Deals with effects of the war (tonnage lost, &c) and new tonnage built. Contains some discussion of results of Government control.

Money, Sir Leo Chiozza. 'The Nationalisation of Shipping,' in *E. R.*, June 1919 (vol. 28), pp. 502–11.

Discusses advantages of nationalization

in the light of war experience (excessive profits of ship-owners, beneficial results of control).

—— ' British Shipping in Peace and War,' in *People's Year Book* for 1920, pp. 204–9.

Criticizes Government action with regard to shipping, e. g. inadequate requisitioning in first years of war, showing beneficial results of reorganization in 1917, excessive compensation paid for ships sunk, rise of freights as result of decontrol, &c.

National Review, Nov. 1919 (vol. 74), pp. 396–403. ' The Convoy System : Advantages and Disadvantages,' by ' Convoy '.

Discusses advantages and disadvantages of the convoy system and whether the consequent dissipation of available carrying power was justified by reduction of submarine losses.

Owen, Sir Douglas. Ocean Trade and Shipping. Ed. by J. S. Corbett and H. J. Edwards. Cambridge Naval and Military Series. University Press, Cambridge. 1914. x + 277 pp.

Deals with shipping, ports, marine insurance, &c., with special reference to probable effect of war conditions. Is of great interest for comparison, especially in connection with the State insurance scheme, as giving an authoritative summary of the anticipations generally entertained in shipping circles as to effect of war.

Renwick, W. H. ' Sea Freights and the Cost of Food,' in *N. C.*, Mar. 1915 (vol. 77), pp. 718–28.

Discusses causes of rise in freights. Defends shipowners from charges brought against them.

Salter, J. A. Allied Shipping Control : An Experiment in International Administration. Carnegie Endowment for International Peace. Economic and Social History of the World War (British Series). Ed. by J. T. Shotwell. Clarendon Press, Oxford. 1921. xxiii + 372 pp.

A useful history. The author held high administrative positions in connexion with shipping during the war and writes from inside knowledge. Pt. I (pp. 1–35) describes the economic system before the war and sketches the shipping problem and its solution. Pts. II and III (pp. 38–133) contain an account of the shipping position in Great Britain during the war and the development of control of shipping (machinery set up and measures taken for allocation of tonnage, blockade measures, steps taken by Allies to secure assistance of neutral shipping, question of freights and profits, &c.). Pts. IV and V (pp. 134–280) contain a detailed account of Allied control (work of the Allied Maritime Transport Council) and discussion of the principles and future of international administration. Pt. VI contains documents and statistics.

Shipping World Year Book for 1915, &c. *Shipping World.*

The main portion deals with the port directory and tariff regulations for U.K. and the world. Quotes statistics of entries and clearances, output, &c. Notes changes in freight rates, alterations in port dues, subsidies granted to shipping companies, &c. Contains digest of Merchant Shipping Acts and International Safety Regulations, Suez Canal statistics, Bureau Veritas tonnage tables.

Smith, J. Russell. Influence of the Great War upon Shipping. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War. Ed. by D. Kinley. Oxford Univ. Press, New York. 1919. viii + 357 pp.

Deals especially with U.S.A. and Great Britain. Describes Government control of British shipping, formation of the War Risks Bureau, &c., and discusses results. Describes progress of shipbuilding, new types, Government administration and its effects, the labour question, control of steel prices, &c.

¶ *Trade Journals :*

Compendium. *Vide* North-East Coast Commercial Compendium, *infra.*

Daily Freight Register. Daily. 6*d.*

A detailed record of freights, giving latest and highest and lowest rates within past year, from and to all ports of Britain, also coastwise rates. Notes of any changes in insurance rates. Annual review of state of freight and tonnage markets.

Economist. Weekly.

Contains useful articles from time to time on shipping questions, effect of freights on prices, &c., and many balance sheets of shipping companies and reports of annual meetings.

Fairplay. Weekly. 6*d.*

Useful publication. Contains comments on matters affecting shipping and shipbuilding (Government control, labour situation, &c.). Weekly notes on freight market, marine insurance, &c. Reports of meetings, e. g. of Chamber of Shipping. Balance sheets of shipping companies and prices of shares. Articles on position of shipping in neutral and allied countries. Annual review, in January or December, of freight fluctuations, marine insurance, shipbuilding, fluctuations in ship values, earnings of steamship companies, &c., for past year.

Glasgow Herald. Annual Supplements on Shipbuilding, Engineering and Commerce, for 1914, &c. (*Vide supra*, p. 252.)

Contain articles on shipping, discussing effect of war, freight rates, Government action and its results, &c.

Lloyd's List. Daily. 3*d.*

Complete record of all shipping matters. Reports on state of shipping, shipbuilding and repairing during war, improvements, inventions, wage movements, &c. Freight market and dock dues reports and schedules. Company reports. Reports of Chambers of Commerce. Government Orders and Parliamentary intelligence. Statistics of mercantile war losses, new launches, &c. Reports of Prize Court proceedings and mercantile law cases. Reports on state of marine engineering trade, inventions, &c.

Lloyd's List Weekly Summary. Weekly. 6*d.*

A more compact but in some respects an amplified edition of *Lloyd's List.*

North-East Coast Commercial Compendium. (*Vide supra*, p. 108.)

Gives statistics of entries and clearances, ships under construction, coal freights, &c. Good yearly review.

Railway News and Railway Official Gazette. (*Vide supra*, p. 346.)

Contains weekly dock and harbour notes and a yearly review on improvements, &c.

Shipbuilding and Shipping Record. Weekly. 6*d.* With illustrations and charts.

Good literary publication. Technical articles. Discussions on relevant topical matters (Government schemes, &c.). Tables of launches and ship sales. Freight market and insurance share reports, &c. Good yearly reviews of state of shipping, shipbuilding and marine engineering, freight and insurance movements, review of shipping finance, tonnage of enemy craft captured or sunk, wage movements, types of ships built, account of second-hand tonnage market, descriptions of any noteworthy schemes, e. g. standard ship construction, &c., &c.

Shipping World and Herald of Commerce. Weekly. 6*d.* Illustrated.

Good literary publication. Information very similar to that given in *Shipbuilding and Shipping Record*, but less technical; contains fuller discussions on events affecting shipping industry. Deals with shipbuilding and marine engineering as well as shipping.

Statist. Weekly.

Similar information to that given in *Economist* (*vide supra*). Gives a selection of freight quotations weekly.

V. LABOUR[1]

A. IN INDUSTRY

1. GENERAL

¶ *Official Publications :*

Board of Trade. Abstract of Labour Statistics of U.K. for 1913. 1914–16, Cd. 7733, vol. 61. xxii + 348 pp.

Statistics *re* employment, work of Labour Exchanges, wages and hours, prices, industrial diseases and accidents, national insurance, workmen's compensation, strikes and lock-outs, trade unions, &c., &c. Figures mainly for 1913 but include a few up to Dec. 1914, e.g., *re* employment and retail prices. No further Abstracts published during war.

—— [later **Ministry of Labour**]. *Labour Gazette.* Monthly. 1*d.*

Contains monthly statistics and notes *re* employment, wages, prices, &c., work of the Labour Exchanges (monthly and an annual review), legal cases affecting labour, labour conditions abroad, statistics (in 1919) as to out-of-work donation, information *re* Joint Industrial Councils, &c., &c.

Ministry of Labour. Directory of Industrial and other Associations concerned with matters relating to Conditions of Employment, 1919. 1919, Cmd. 328. vi + 285 pp.

A directory of Joint Standing Industrial Councils, Interim Industrial Reconstruction Committees, Trade Boards, Agricultural Wages Board, Maritime Boards, Conciliation and Arbitration Boards, Employers' Associations, Trade Unions, &c.

—— *Labour Gazette. Vide* BOARD OF TRADE, *supra.*

—— *The Month's Work.* Monthly, from July 1918 to Aug. 1920. 2*d.*

Contains notes and short articles on work of Employment Exchanges and Local Advisory Committees, distribution of man-power, employment and training of ex-service men and demobilized war workers, disputed claims to unemployment benefit, formation and work of Industrial Councils, &c.

—— *Weekly Report.* (*Vide infra*, p. 393.)

Treasury. Bad Time kept in Shipbuilding, Munitions and Transport areas, Report and Statistics of. 1914–16, No. 220, vol. 55. 31 pp.

Discusses causes of lost time.

¶ *Books and Periodicals :*

Cannan, Edwin. 'The Influence of the War on Commercial Policy.' *Vide* RUSKIN COLLEGE, *infra.*

Carnegie Endowment for International Peace. British Labor Conditions and Legislation during the War. *Vide* HAMMOND, M. B., *infra.*

Chapman, S. J. (Editor). Labour and Capital after the War. With Introduction by J. H. Whitley. John Murray. 1918. x + 280 pp.

Contains chapters by Bishop of Birmingham, J. R. Clynes, Lord Leverhulme, R. H. Tawney, F. Dudley Docker, F. S. Button, Sir Hugh Bell, B. Seebohm Rowntree (reprinted from *N. C.*, Feb. 1917) and the Editor, discussing causes of industrial troubles and measures to be taken for securing industrial harmony. Also chapters by A. M. Anderson and A. Susan Lawrence on employment and wages of women (*vide infra*, p. 479).

Cole, G. D. H. Labour in War Time. G. Bell & Sons. 1915. viii + 316 pp.

Discusses attitude of Labour towards the war, effect of war on employment, steps taken for prevention and relief of

[1] For labour conditions in specific trades and occupations *vide* under the particular occupation, §§ III and IV, *supra.*

Cole, G. D. H. (*cont.*)

distress and Labour policy with regard thereto, Labour campaign against high prices, wages disputes and awards of Committee on Production, steps taken for organization of labour for production of munitions (Treasury Agreement, Munitions Act, &c.), outlook for future, &c. Criticizes Government action. Bibliography.

—— 'Recent Developments in the British Labour Movement,' in *Amer. Econ. Rev.*, Sep. 1918 (vol. 8), pp. 485–504.

Describes chief features in trade union development during war, political growth of Labour Party, policy of various Labour bodies, change in attitude and growth of 'New Labour Party', the educational movement, present demands of labour as illustrated by shop steward movement, &c.

Deeley, W. T. Labour Difficulties and Suggested Solutions: A Manual for technical students, cashiers, foremen, departmental or works managers and employers. Sherratt and Hughes, Manchester. 1918. viii + 175 pp.

Discusses requirements of a foreman and works manager, the 'Employment Department', methods of wage payment, welfare work and works committees, &c. Discusses (pp. 66–84) defects in present system of war grants, gives examples of war grant awards and agreements and shows need for a national scheme.

Edinburgh Review, Oct. 1915 (vol. 222), pp. 248–72. 'The Workshops and the War.'

Reviews labour situation since beginning of war (falsification of prophecies of unemployment, wages, strikes and Government action, restriction of output, &c.).

Fabian Research Department. *Monthly Circular.* Contd. from Nov. 1, 1918, as *Monthly Circular of Labour Research Department*, q. v.

Furniss, H. Sanderson (Ed.). The Industrial Outlook. Chatto & Windus. 1917. ix + 402 pp.

Contains introduction by Editor and articles by various writers, discussing changes in the industrial situation brought about by war, future prospects, causes of industrial unrest, the control of industry, &c., &c.

G., A. The War and Labour. Pamphlets on Problems of National Reconstruction, No. VI. *The Athenaeum.* 1917. 8 pp.

Describes phases through which demand for labour passed at outbreak of war, changes in labour conditions and in outlook of Labour, and discusses lesson taught by war.

Garton Foundation. Memorandum on the Industrial Situation after the War. Harrison & Sons. 1916. 4°. 96 pp. Revised ed. 1919. 8°. 175 pp.

Deals practically entirely with post-war problems, e. g. prospects as regards employment, earnings, temper of Labour, &c., and measures to be adopted.

Hammond, M. B. British Labor Conditions and Legislation during the War. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War. Ed. by David Kinley. Oxford University Press, New York. 1919. xii + 335 pp.

A descriptive account of labour conditions during the war. Describes early effects of war, Government measures to relieve distress, strikes, relation of Government to trade unions, working of the Munitions Acts, schemes for dealing with supply and distribution of labour, dilution and women's work, wages, cost of living, conditions of employment, causes of industrial unrest and measures taken to combat it, reconstruction plans, &c. Notes difficulties and criticisms encountered.

Harley, J. H. 'Labour and the War,' in *C. R.*, Jan. 1915 (vol. 107), pp. 90–8.

Discusses attitude of Labour before outbreak of war (London building strike) and effect of declaration of war.

Hilton, John. 'Industrial Re-

construction.' *Vide* THORP, JOSEPH, *infra.*

Hopkins, Charles P. 'National Service' of British Merchant Seamen, 1914–19. (*Vide supra*, p. 358.)

Gives useful information *re* wages and conditions of service of seamen during war, supply and training of seamen, employment of Chinese, unrest, disciplinary measures, &c.

Kennedy, J. M. 'Labour and the War,' in *F. R.*, Ap. 1915 (vol. 97), pp. 722–32.

Discusses labour conditions in first few months of war and vindicates patriotism of the manual worker.

—— 'Labour, Conscription, and Finance,' in *F. R.*, Nov. 1915 (vol. 98), pp. 947–58.

Describes opposition of Labour to conscription and Munitions Act.

Kitchen, F. Harcourt. 'The Troubles and Desires of Labour,' in *F. R.*, Oct. 1917 (vol. 102), pp. 581–93.

Discusses effect of war on industrial unrest, patriotic attitude of Labour, their grievances, &c.

Labour Party. Labour and the New Social Order: A Report on Reconstruction. 1918. 23 pp.

Sets forth reconstruction programme of the Labour Party, with regard to enforcement of national minimum, organization of demobilization, unemployment, democratic control of industry, &c.

Labour Research Department[1] [formerly **Fabian Research Dept.**]. *Monthly Circular.*

Contains useful information on labour questions (trade unionism, wages, strikes, co-operative movement, Joint Industrial Councils, legal notes, labour abroad, &c.), and a monthly bibliography.

Labour Year Books, 1916 and 1919. Labour Party. 697 pp., xvi + 449 pp.

Contain much useful information with regard to labour questions during war, e. g. trade unionism, political organization, International Labour movement, organization of labour supply, administration of Munitions Acts, dilution, military service, legal decisions affecting labour, directory of Labour organizations, bibliography of Labour publications, &c. Statistics in Year Book for 1916 relate mainly to pre-war period.

Macassey, Lynden. 'Economic Fallacy in Industry,' in *Ed. R.*, Ap. 1919 (vol. 229), pp. 326–44. 'More Economic Fallacies in Industry,' in *Ibid.*, Oct. 1919 (vol. 230), pp. 387–406.

Discusses economic theories held by workpeople.

Marriott, J. A. R. 'Economics and War,' in *F. R.*, Jan. 1916 (vol. 99), pp. 71–85.

Discusses industrial situation in early months of war, subsequent disputes, bad effect of high wages, &c.

Quarterly Review, Oct. 1914 (vol. 221), pp. 478–85. 'Organised Labour and the War.'

Discusses attitude of Labour on outbreak of war, giving examples of patriotic spirit shown by Triple Alliance and other unions.

Richardson, H. M. 'Capital and Labour after the War,' in *Annual of Co-operative Wholesale Societies*, 1917, pp. 257–75.

Discusses attitude of Labour during war (apparent unity, but unrest), growth of National Guildism and changed attitude to collectivism, effect of war on trade unionism, &c., and criticizes the Government's different policy in dealing with Capital and Labour.

Round Table, June 1915 (No.

[1] In addition to the publications specifically mentioned in this and subsequent sections, a valuable collection of reports, pamphlets, &c., is to be found at the Labour Research Department, 34, Eccleston Square, London. It includes an extensive collection of press-cuttings, classified in detail, dealing with every aspect of labour questions, and covering the period from about the beginning of the war to date.

Round Table (*cont.*)

19), pp. 559–88. 'War and Industrial Organisation.'

Discusses lack of foresight and resolution on part of Government, e. g. as regards recruiting and arrangements for provision of munitions. Criticizes especially Government policy with regard to labour. Sketches events leading up to Treasury Agreement and criticizes this agreement.

—— Sep. 1915 (No. 20), pp. 724–48. 'The Industrial Situation.'

Discusses circumstances leading up to the passing of the Munitions Act, working of the Act, events leading up to Welsh coal strike, mental attitude of strikers, &c.

—— Dec. 1915 (No. 21), pp. 56–85. 'The War and English Life.'

Discusses temper of the working classes, Lloyd George and the trade unions, conditions as to unemployment, wages, &c., and the industrial outlook.

—— Dec. 1918 (No. 33), pp. 135–62. 'Industrial Reconstruction and the Government.'

Discusses problems of demobilization, Government pledges, industrial devolution, &c.

Ruskin College. The Re-organisation of Industry (No. 1). Oxford. 3rd ed. 1916. 85 pp.

Contains four articles, with discussions. I (pp. 4–17), 'The Disorganisation of Industry: The Problems to be faced,' by A. C. Pigou. II (pp. 18–42), 'How Readjustments may be facilitated after the War,' by A. Greenwood. III (pp. 43–60), 'The Contribution of Industry to Revenue,' by Sidney Webb. IV (pp. 61–85), 'The Control of Industry after the War,' by A. E. Zimmern.

I. Discusses probable changes in industry during transition period and measures for tiding over difficulties. II. Discusses difficulties which will arise, noting changes which have taken place during war; discusses question of women's employment, restoration of trade union conditions, etc. III. Discusses way to increase production and improve organization, criticizing present conditions in industry. IV. Deals with general principles.

—— Some Economic Aspects of International Relations. Reorganisation of Industry Series, No. 3. Oxford. 1917. 89 pp.

Pp. 37–59, 'The Influence of the War on Commercial Policy,' by E. Cannan. Discusses the overcoming, owing to war, of resistance to easier methods of production, consequent diminution of employment, value of increased versatility of workers, altered relations between State and Labour organizations, possible post-war position in industry, &c.

Ryan, W. P. The Irish Labour Movement. Talbot Press, Dublin. T. Fisher Unwin, London. 1919. 266 pp.

Deals mainly with pre-war history. Chaps. xvii and xviii (pp. 238–65) deal with war period (the rising of 1916, growth of trade unionism in Ireland and Irish Labour programme). Written from Labour point of view.

Simon, E. D. 'Labour from an Employer's Point of View,' in *C. R.*, May 1918 (vol. 113), pp. 551–8.

Discusses limitation of output and gives instances of its being practised during war.

Thorp, Joseph (Ed.). The Other War. Geo. Allen & Unwin. 1917. 107 pp.

Chap. V. (pp. 95–107), 'Industrial Reconstruction,' by John Hilton. Discusses probable post-war conditions as regards employment and wages, and steps to be taken.

War Emergency Workers National Committee. Reports, Minutes and Miscellaneous Pamphlets. 1914, &c.

Deal with relief of war distress, women's employment, military pensions and separation allowances, high prices, conscription, &c. (Sets of these publications (incomplete) are to be found at the British Museum and at the Labour Research Department.)

¶ *Journals :*

Athenaeum. Monthly.

Nos. 4613–39 (1917 and 1918) contain articles on reconstruction problems, employment of disabled men, organization of industry, labour unrest, women's work, employers' and trade union notes, &c. (After 1918 published weekly, a literary and scientific paper).

Forward. Glasgow. Weekly. 1*d.*

Social democratic views.

Herald. Weekly from Oct. 3, 1914 to Dec. 1918. (Before and after these dates published as *Daily Herald*). 1*d.*

Labour Leader. Manchester and London. Weekly. 1½*d.*

Official organ of the Independent Labour Party.

Nation. Weekly. 9*d.*

Liberal-Labour views. Contains many articles on labour problems, chiefly unemployment (especially at beginning of the war), also pensions and allowances, taxation as affecting working-classes, &c.

New Statesman. Weekly. 6*d.*

Frequent articles and correspondence on labour questions, unemployment, distress, wages, disputes, labour organization and control, &c.

Organiser. Monthly.

Vide supra. p. 108.

Pioneer and Labour Journal. Woolwich. Weekly. 1*d.*

Plebs Magazine. The Plebs League, Oxford. Monthly. 2*d.* Contd. from Aug. 1919 as *The Plebs.* London. 6*d.*

Object of the League :—'To further the interests of independent working-class education as a partisan effort to improve the position of Labour in the present, and ultimately to assist in the abolition of wage slavery.' Follows progress of Labour movements, work of Labour College, &c. Strong criticism of Government measures.

Worker. Huddersfield. Weekly. 1*d.*

Socialist views.

2. EMPLOYMENT, RELIEF, ORGANIZATION OF MAN-POWER, ETC.

a. STATE OF EMPLOYMENT[1], RELIEF OF WAR DISTRESS[2], POOR RELIEF

¶ *Acts of Parliament :*

Education (Provision of Meals) Act, 1914. 4 & 5 Geo. V. c. 20. 1 p.

Education (Provision of Meals) (Ireland) Act, 1914. 4 & 5 Geo. V. c. 35. 2 pp.

Ibid., 1916. 6 Geo. V. c. 10. 1 p.

Unemployment (Relief Works) Act, 1920. 10 & 11 Geo. V. c. 57. 5 pp.

¶ *Official Publications :*

Board of Trade. State of Employment in U.K. in Oct. 1914, Dec. 1914, and Feb. 1915, Reports on. 1914–16, Cd. 7703, 7755, 7850, vol. 21. 41 pp., 10 pp., 19 pp.

Contain reviews of state of employment and tables giving percentage working on short time and overtime, contraction or expansion of employment and enlistments, in large and small firms, in different trade groups.

—— *Bd. of Trade Jl.*, Mar. 6, 1919 (vol. 102), pp. 308–10. 'Employment in Peace and War : Movement between July 1914 and July 1918.

[1] *Vide* also LABOUR : GENERAL, § A, 1, *supra.*

[2] For relief of war refugees *vide* § IX, A, 2, *infra*, pp. 595–600.

Board of Trade (*cont.*)

Summarizes a report prepared by Industrial (War Inquiries) Dept. of Board of Trade on the state of employment in industrial and other occupations in U.K. in July 1918 as compared with July 1914 and intervening years.

—— *Labour Gazette.* (*Vide supra*, p. 365).

Contains monthly notes and statistics as to state of employment in various industries in U.K.; also annual reviews, in January, in article entitled 'Employment, Wages, Prices and Disputes'. The issues for Oct. 1914 and Jan. to Aug. 1915 contain information as to terms of payment of emergency grants to trade unions for unemployment benefit and amounts paid.

Ireland. Local Government Board for Ireland. Annual Reports. (*Vide supra*, p. 95).

Contain accounts of administration of Poor Laws, Unemployed Workmen Act and measures taken in regard to war distress, Old Age Pensions Acts, &c. Statistics of numbers in receipt of relief, Old Age Pensions appeals, &c.

Local Government Board (England and Wales). Annual Reports. — (Report, 1914–15, Pt. I) 1916, Cd. 8195, vol. 12. 95 pp. —(Report, 1915–16, Pt. I) 1916, Cd. 8331, vol. 13. 30 pp.—(Report, 1916–17, Pt. I, i.e. pp. 6–22, and Appendices) 1917–18, Cd. 8697, vol. 16.—(Report, 1917–18, Pt. III, i.e. pp. 36–41, and Appendices) 1918, Cd. 9157, vol. 11.—(Report, 1918–19, Pt. III, i.e. pp. 88–97, and Appendices) 1919, Cmd. 413.

Parts mentioned contain reports on administration of Poor Laws, Unemployed Workmen Act, Old Age Pensions Acts, &c. Statistics of numbers in receipt of poor relief, poor law expenditure, Old Age Pensions appeals, &c.

—— Deaths in England and Wales from starvation or accelerated by privation, Returns of. —(Return for 1914) 1914–16, No. 395, vol. 55. 21 pp.—(Returns, 1915 and 1916) 1917–18, Nos. 10 and 132, vol. 38. 10 pp., 9 pp.—(Return, 1917) 1918, No. 96, vol. 26. 14 pp.

Give number of deaths and observations on the cases by the Boards of Guardians.

—— Homeless Poor, Report of Metropolitan Poor Law Inspector's Advisory Committee on. 1914–16, Cd. 7840, vol. 32. 12 pp.

Describes work of Committee in dealing with homeless poor and effect of war in reducing numbers. Contains table showing number of tickets distributed by police for shelters and casual wards, monthly Nov. 1912 to Dec. 1914.

—— National Relief Fund, Half-yearly Reports on administration of.—(Report to March 31, 1915) 1914–16, Cd. 7756, vol. 31. 22 pp.—(Reports to Sep. 30, 1915 and March 31, 1916) 1916, Cd. 8169, 8286, vol. 14. 57 pp., 49 pp. —(Reports to Sep. 30, 1916 and March 31 and Sep. 30, 1917) 1917–18, Cd. 8449, 8621, 8920, vol. 17. 36 pp., 10 pp., 11 pp. —(Report to March 31, 1918) 1918, Cd. 9111, vol. 12. 10 pp.—(Report to Sep. 30, 1918) 1919, Cmd. 16. 12 pp.—(Report to June 30, 1919) 1919, Cmd. 356. 14 pp.

Give details of measures taken for relief of distress, military and civil. Appendices contain statistics of number of cases assisted, receipts and expenditure, &c. (*Vide* also Reports on administration of National Relief in Scotland, under SCOTLAND, *infra*).

—— Paupers, Monthly Statements of number of, relieved in 1915 (England & Wales). 1914–16, Nos. 119 to 119–xi, vol. 54. *c.* 8 pp. each.

Statistics compared with corresponding month for previous year.

—— Paupers, Statement of number of, relieved on Jan 1, 1915. 1914–16, No. 433, vol. 54. 68 pp.

Statistics, with comments, of numbers relieved in each Union, &c. (*Vide* also MINISTRY OF HEALTH, *infra*.)

—— Prevention and Relief of Distress due to War, Memorandum on steps taken for. 1914, Cd. 7603, vol. 71. 52 pp.

Describes formation, powers, &c., of Local Representative Committees, and steps taken and circulars issued by L.G.B.

—— Special work of L.G.B. arising out of War, Report on (up to Dec. 31, 1914). 1914–16, Cd. 7763, vol. 25. 42 pp.

Describes formation, powers, &c., of Local Representative Committees and measures taken for prevention and relief of distress.

London County Council. Public Health, Report on, for 1914. Reports of Medical Officer, 1915 to 1918. (*Vide supra*, p. 8).

Contain statistics of number of homeless people and number in common lodging houses and casual wards in London on certain date in winter.

Metropolitan Asylums Board. Annual Reports for 1914 to 1920.

Contain information as to numbers admitted to casual wards.

Ministry of Health. Annual Report, 1919–20. Pt. III. The Administration of the Poor Law, &c. 1920, Cmd. 932. 163 pp.

Gives an account of administration of the Poor Law, Unemployed Workmen Act, and Old Age Pensions Acts (number of appeals and number of pensioners), work done in connexion with war distress, vagrancy among ex-service men, &c. Contains reports of Inspectors on their districts; these throw some light on the way in which poor law problems have been affected by the social and economic results of war.

—— Poor law relief, Statement of number of persons in receipt of, in England and Wales on or about Jan. 1, 1919. 1919, No. 230. 15 pp.

Is in continuation of No. 433 of 1914–16 (*vide* LOCAL GOVERNMENT BOARD, *supra*). Gives numbers of different classes in receipt of relief Dec. 28, 1918, and compares with various dates 1914–18, discussing briefly causes of decrease in numbers during war.

—— Poor law relief, Statement of number of persons in receipt of, in England and Wales on the night of Jan. 1, 1920. 1920, No. 191. 41 pp.

—— Widows and Children, Survey of Relief to (1919). 1920, Cmd. 744. 186 pp.

Reproduces circular issued in Aug. 1914, with regard to relief of widows and children. Contains summaries of inspectors' reports on individual unions as to practice of the Guardians, with special reference to the terms of the circular.

Scotland. Local Government Board. Annual Reports. (*Vide supra*, p. 98).

Contain accounts of administration of Poor Law, Unemployed Workmen Act, Old Age Pensions Acts, &c. Statistics of numbers in receipt of relief, Old Age Pension appeals, &c.

—— *Ibid.* National Relief Fund, Reports by Scottish Advisory Committee on administration of, in Scotland up to March 31, 1915 and Sep. 30, 1915.— 1914–16, Cd. 8129, vol. 31. 24 pp. — 1916, Cd. 8227, vol. 14. 9 pp.

Describes machinery for administration of fund and measures taken for relief of distress, military and civil. Statistics of number of cases assisted, receipts and expenditure, &c. (For subsequent information *re* Scotland *vide* Reports on administration of National Relief Fund, under LOCAL GOVERNMENT BOARD (England and Wales), *supra*.)

¶ *Books and Periodicals :*

Alden, Percy. 'The Central (Unemployed) Body and the War,' in *Progress*, Jan. and Ap. 1915 (vol. 10), pp. 1–13, 45–54.

Gives account of the work of C.U.B. in

ascertaining number of unemployed and providing work.

Bowley, A. L. The War and Employment. Oxford Pamphlets, 1914–15. Oxford Univ. Press. 1915. 21 pp.

Discusses statistics of state of employment since outbreak of war.

Charity Organisation Review. Monthly.

Contains notes and articles on the extent of war distress and measures taken to deal with it in different towns, especially in the numbers Sep.–Dec. 1914. *Vide* also article on 'Organised Charity during the War', by X, Sep. 1915 (N.S. vol. 38), pp. 292–306, which criticizes administration of National Relief Fund and compares it with work done by Soldiers' and Sailors' Families Association.

Cole, G. D. H. Labour in War-Time. (*Vide supra*, p. 366.)

Chap. III discusses effect of war on employment. Chap. IV discusses Government action in dealing with unemployment; criticizes their policy and administration with regard to relief of distress, describes constitution and activities of War Emergency Workers National Committee, &c., and criticizes Labour policy.

D'Aeth, F. G. 'War Relief Agencies and the Guild of Help Movement,' in *Progress*, Oct. 1915 (vol. 10), pp. 140–7.

Gives an account of the growth of the Soldiers' and Sailors' Families Association and Soldiers and Sailors Help Society and Guilds of Help during war. Discusses effect of Government activities on the Guilds and their relationship to the Local Representative Committees.

Englishwoman, Feb. 1915 (vol. 25), pp. 106–11. 'Problems of the Day: Will Mr. Samuel explain.'

Discusses work of Local Government Board in prevention and relief of distress. Complains that practically nothing has been done for professional classes.[1]

Fawcett, M. G. 'War Relief and War Service,' in *Q.R.*, Jan. 1916 (vol. 225), pp. 111–29.

Gives an account of measures taken to relieve distress, women's workrooms, relief of professional classes,[1] &c.

Gordon, Lionel Smith-, and **O'Brien, Cruise.** Starvation in Dublin. Co-operative Reference Library, Dublin. 1917. 31 pp.

Discusses distress in Dublin (unemployment, low wages and difficulties in obtaining food). Gives a few figures as to average wages compared with pre-war period and estimates number of unemployed. Describes work of the Dublin Food Supply Society and other agencies in supplying cheap food.

Harris, H. Wilson. 'The Relief of War Distress,' in *C.R.*, Jan. 1915 (vol. 107), pp. 58–66.

Describes machinery for relief of distress and measures taken.

Heath, J. St. George. 'The War and Unemployment among Skilled Men in London,' in *P.Q.*, Feb. 1915 (No. 5), pp. 69–81.

Describes conditions as to unemployment in early days of war and Toynbee Hall experiment for transferring men from furniture to leather trade.

—— 'School for Training Leather Stitchers and Riveters,' in *Toynbee Record*, March 1915 (vol. 27), pp. 59–64.

Describes experiment at Toynbee Hall for training unemployed cabinet makers and upholsterers in leather stitching, &c. (*Vide* also note in *Toynbee Record*, July–Sep. 1915 (vol. 27), p. 83.)

Henderson, H. D. 'The State of Employment in the Borough of Stepney,' in *Toynbee Record*, Jan. 1915 (vol. 27), pp. 37–8.

Discusses state of employment, especially in tailoring trade, Government orders obtained by large firms and difficulty of small employers in retaining labour.

Layton, Walter T. 'The Effect of War on Industry,' in *Q.R.*, Jan. 1915 (vol. 223), pp. 266–81.

Discusses state of employment, enlistment from various industries, transference from one industry to another, &c.

[1] For further references to relief of professional classes *vide infra*, pp. 593 n., 595.

Royal Statistical Society, Journal of, July 1915 (vol. 78), pp. 646–8.

Quotes figures obtained from banks of England and Wales, showing total of cheques drawn for payment of wages on certain dates between Aug. 1, 1914 and Mar. 27, 1915, and compares these figures with Board of Trade reports on state of employment.

Samuel, Herbert. 'Government War Distress Measures,' in *N.C.*, Nov. 1915 (vol. 78), pp. 1114–23.

Describes steps taken for prevention and relief of distress.

Toynbee Record, Nov. 1, 1914 (vol. 27), pp. 10–12. 'The Borough of Stepney and the Relief of Distress.' *Ibid.*, pp. 13–15. 'Unemployment in the Borough of Stepney.'

(1) Describes scheme adopted by Stepney Representative Committee for relief of distress. (2) Gives a rough estimate of extent of distress among male and female workers in various Stepney industries.

War Emergency Workers National Committee. The War Emergency: Suggestions for Labour members on Local Committees. Sep. 1914. 14 pp.

Makes suggestions as to policy to be pursued, e.g. starting of public works, scale and conditions of relief, &c.

Warburg, F. S. 'Relief Allowances and the Rise in the Cost of Food,' in *C.O.R.*, Feb. 1916 (vol. 39), pp. 93–98.

Describes varying systems adopted by C.O.S. Committees in London.

Webb, Sidney. The War and the Workers. Fabian Tract, No. 176. Sep. 1914. Fabian Society. 23 pp.

Makes suggestions as to composition of Local Representative Committees and measures to be taken for prevention and relief of distress.

¶ *Journals:*

Local Government Chronicle. Weekly. 3*d.*

Local Government Journal. Weekly. 2*d.*

Contain information with regard to Poor Law administration (schemes discussed, notes on progress, effect of war, &c.).

b. OLD AGE PENSIONS

¶ *Act of Parliament:*

Old Age Pensions Act, 1919. 9 & 10 Geo. V. c. 102. 5 pp.

¶ *Official Publications:*

Board of Customs and Excise. Annual Reports. (*Vide infra*, p. 571.)

Contain statistics with regard to Old Age pensions, claims received, pensions payable, &c. Give tables showing, for each area in U.K., the number of pensioners, estimated cost of pensions and additional allowances, &c.

Ireland. Local Government Board. Annual Reports.

Vide supra, p. 375.

Local Government Board (England and Wales). Annual Reports.

Vide supra, p. 375.

Ministry of Health. Annual Report, 1919–20. Pt. III.

Vide supra, p. 377.

Scotland. Local Government Board. Annual Reports.

Vide supra, p. 378.

Treasury. Additional Allowances to Old Age Pensioners suffering special hardship owing to the war, Treasury scheme for award of. 1916, Cd. 8373, vol. 23. 6 pp.

—— Administrative Concessions made to Old Age Pensioners since

Treasury (*cont.*)

commencement of war, under which temporary increases of means are not, in general, being taken into account with a view to reduction or revocation of pension. 1917, Cd. 8320, vol. 23. 1 p.

—— Old Age Pensions, Departmental Committee on. Report. 1919, Cmd. 410. 19 pp. Appx. and Minutes of Evidence. Cmd. 411. viii + 362 pp.

Describes present working of the law and special modifications introduced during war. Discusses some difficulties of the present situation and makes recommendations for reform.

¶ *Books and Periodicals :*

Labour Year Book, 1919. (*Vide supra*, pp. 369–70.)

Pp. 75–8, 'The War and the Old Age Pensioner.' Discusses administrative concessions made to Old Age pensioners and increased grant. Quotes statistics of pensions paid, claims made, number of pensioners paid at the several rates, &c.

c. UNEMPLOYMENT INSURANCE

¶ *Acts of Parliament :*

National Insurance Act, 1911. 1 & 2 Geo. V. c. 55.

Pt. II provides for compulsory unemployment insurance in certain trades and voluntary insurance in other trades.

National Insurance (Pt. II Amendment) Act, 1915. 5 Geo. V. c. 27. 1 p.

Enables contributions to be made by workmen employed abroad in insured trades on work connected with the war.

National Insurance (Pt. II) (Munition Workers) Act, 1916. 6 & 7 Geo. V. c. 20. 3 pp.

Extends unemployment insurance provisions of Act of 1911 to certain trades and employments connected with the war.

National Insurance (Unemployment) Act, 1918. 7 & 8 Geo. V. c. 63. 2 pp.

Amends Act of 1916 with respect to the proportion between amount of unemployment benefit and number of contributions paid.

Ibid., 1919. 9 & 10 Geo. V. c. 77. 1 p.

Increases rate of benefit payable.

Unemployment Insurance Act, 1920. 10 & 11 Geo. V. c. 30. 38 pp.

Provides for general compulsory insurance against unemployment.

Ibid. (Temporary Provisions Amendment) Act, 1920. 10 & 11 Geo. V. c. 82. 1 p.

Amends 10 and 11 Geo. V. c. 30, with regard to benefits.

¶ *Official Publications :*

Board of Trade. National Insurance Acts, Pt. II. Unemployment Fund Accounts, with Reports of Comptroller & Auditor-General.—(Accts, 1914–15 & 1915–16) 1917–18, Nos. 18 and 187, vol. 19. 5 pp., 4 pp.—(Accts, 1916-17) 1919, No. 21. 4 pp.—(Accts. 1917–18), 1920, No. 7. 6 pp.

¶ *Books and Periodicals :*

Labour Party. The Problem of Unemployment after the War. 1917. 7 pp.

Discusses measures to be taken for prevention of unemployment and provision to be made for unemployed. Discusses defects in working of the Insurance (Munition Workers) Act, especially as regards women.

d. ORGANIZATION OF MAN-POWER[1]

¶ *Acts of Parliament :*

Military Service Act, 1916. 5 & 6 Geo. V. c. 104. 6 pp.

Ibid., 1916 (Session 2). 6 & 7 Geo. V. c. 15. 6 pp.

Ibid. (Review of Exceptions) Act, 1917. 7 Geo. V. c. 12. 3 pp.

Ibid., 1918. 7 & 8 Geo. V. c. 66. 2 pp.

Ibid. (No. 2) Act, 1918. 8 Geo. V. c. 5. 6 pp.

National Registration Act, 1915. 5 & 6 Geo. V. c. 60. 6 pp.

Ibid. (Amendment) Act, 1918. 7 & 8 Geo. V. c. 60. 5 pp.

¶ *Official Publications :*

Parliamentary Debates. House of Commons, May 5, 1921, p. 1253. Return of Enlistments & Casualties.

Table giving, for U.K., Dominions, &c., total (approximate) number of enlistments (all ranks) during the war.

Statutory Rules & Orders, 1915, &c. (*Vide supra*, p. 85.)

Contain Orders made with regard to national registration and military service.

Admiralty. Navy Estimates, 1919–20, Statement explanatory of. 1919, Cmd. 451. 25 pp.

Contains (p. 21) statistics of numbers serving in Navy and Reserve, July 15 and Aug. 15, 1914, and Nov. 15, 1918.

Board of Agriculture and Fisheries. Fisheries in the Great War. (*Vide supra*, p. 172.)

Chap. iv (pp. 28–39). Gives account of methods adopted to adjust rival claims of Navy and Army and fishing and subsidiary industries.

Committees. Military Service (Review of Exceptions) Act, 1917, Select Committee on. Special Report and Report, with proceedings of the Committee, Minutes of Evidence and Appendices. Index and Digest of Evidence. 1917–18, Nos. 126 and 185, 126 and 185–Ind., vol. 3. xviii + 243 pp.

Special Report (pp. iii–v) discusses abuses of system of medical examination (passing of unfit men) and recommends transfer of medical boards from War Office to civilian control, &c. Report (pp. vi–vii) deals with extent to which these recommendations have been carried out. Evidence contains a considerable amount of information as to machinery of recruiting and working of the medical boards.

Home Office. Clerical and Commercial Employment, Report of Committee appointed to consider conditions of, with a view to advising what steps should be taken to replace men. 1914–16, Cd. 8110, vol. 13.

Vide infra, p. 495.

—— Retail Trade, conditions of, and enlistment, Report of Committee on. 1914–16, Cd. 8113, vol. 35. 10 pp.

Gives some figures as to number of men who could be released, discusses question of substitution, early closing, &c.

Local Government Board. Annual Reports. (*Vide supra*, p. 97.)

Report for 1915–16, Pt. I, pp. 20–4; Report 1916–17, pp. 19–22; Report 1917–18, pp. 48–52; Report 1918–19, pp. 113–52. Give accounts of action taken with regard to national registration, recruiting and work of tribunals.

—— Central Tribunal appointed under Military Service Act, 1916, Report of. H.M.S.O. 1919. 40 pp.

[1] *Vide* also under §§ A, 1 and 2, a, *supra*, pp. 365–82.

Gives an account of instructions issued *re* exemptions, duties of local tribunals, composition and procedure of Central Tribunal, grounds on which applications for exemption made, number of appeals received and decisions given, &c.

Ministry of Labour. Employment Exchanges, Report [1] of Committee of Inquiry into work of. 1920, Cmd. 1054. 32 pp.

Examines and makes recommendations with regard to administration and organization of the Exchanges, their scope, their value to industry, co-operation with trade unions, &c. Statistics illustrating main features of the work of the Exchanges since 1911.

Ministry of Munitions. Headquarters Staff of Ministry of Munitions, Report of Military Service Committee on. 1916, Cd. 8411, vol. 13. 6 pp.

Re number of men who could be released.

Ministry of National Service. Government departments, Number of persons employed in, at outbreak of war and at present time, number who have joined the forces, &c., Return of. 1918, No. 76, vol. 16. 6 pp.

—— Medical Department, Report of, 1917–19. H.M.S.O. 1920. 75 pp.

Deals with the recruiting medical problem, general scheme of work of Medical Department of Ministry of National Service, work of medical boards from Nov. 1, 1917 to Nov. 1, 1918, recruiting of medical profession, &c.

—— National Service Instructions. 1917–18, Cd. 8833–8840, vol. 38.

Instructions *re* organization of recruiting areas and transfer of recruiting to civil control under Minister of National Service, directions for guidance of medical boards, &c.

—— Physical Examination of men of military age by National Service Medical Boards from Nov. 1, 1917 to Oct. 31, 1918, Report on. 1919, Cmd. 504.

Vide supra, p. 10.

Ministry of Reconstruction. Reconstruction Problems, No. 9. Naval Demobilisation. (*Vide infra*, p. 522.)

Gives figures showing increase in numbers of Navy during war and number of merchant service men serving in Navy, Nov. 1918.

National Health Insurance Commission. National Health Insurance, Report on administration of, 1914–17. 1917–18, Cd. 8890, vol. 17. (*Vide supra*, p. 11.)

Contains (pp. 34–7, 106–7, 109, 194–5, 196) account of steps taken with regard to recruiting of doctors, chemists, &c.

Scotland. Distributing Trades in Scotland, Committee on War Organisation in. 1st and 2nd Reports. 1914–16, Cd. 7987, vol. 37. 11 pp. 1916, Cd. 8220, vol. 15. 4 pp.

First Report discusses in a general way the estimated numbers employed in distributing trades and methods to be adopted to meet conditions caused by enlistment, e.g. substitution of women, early closing, &c. Second Report gives returns as to number of men who could be released.

Treasury. Expenditure, Memorandum on. 1920, Cmd. 802. (*Vide supra*, p. 79.)

Gives (p. 6) numbers serving in army, navy, and air force in 1914 (pre-war), Nov. 11, 1918, and subsequent dates.

War Office. British Army, General Annual Reports on, for period from Oct. 1, 1913 to Sep. 30, 1919. 1921, Cmd. 1193. 107 pp.

Gives account of steps taken with regard to recruiting during war and since Armistice. Statistics of numbers recruited and strength of the Army each year.

[1] Minutes of Evidence. 1921, Cmd. 1140.

—— Group and Class Systems. Notes on administration issued by Director-General of Recruiting, Feb. 1916. 140 pp. Supplement, Ap. 1916. 8 pp. H.M.S.O.

Gives instructions for guidance of military representatives and local tribunals in deciding claims for exemption from military service. Appendices contain Local Government Board circulars and memoranda. Supplement explains effect of new regulations *re* munition workers, new conditions attached to certain certified occupations, &c.

—— Recruiting, Report on, by Earl of Derby, Director-General of Recruiting. 1914–16, Cd. 8149, vol. 39. 8 pp.

Gives figures of numbers who have attested under Derby scheme. Discusses detrimental effect on recruiting of issue of lists of 'reserved' occupations.

—— Recruiting in Ireland, Report on. 1914–16, Cd. 8168, vol. 39. 4 pp.

Gives number of recruits in Ireland from Aug. 2, 1914 to Jan. 8, 1916.

¶ *Books and Periodicals :*

British Medical Journal. Weekly.

Contains, from 1914 onwards, frequent articles on enlistment of doctors and arrangements made by medical profession for organizing the supply for military and civilian needs.

Dawson, Wm. Harbutt. 'A Plea for the Little People,' in *N.C.*, Nov. 1917 (vol. 82), pp. 943–57.

Discusses hardships of owners of one-man businesses as shown in tribunal reports, and (unintentional) unfairness in dealing with them.

Harley, J. H. 'The Conscription of Industry,' in *C. R.*, May 1916 (vol. 109), pp. 594–602.

Discusses attitude of workers towards Military Service Act and danger of military leading to industrial conscription.

Hatch, F. H. The Iron and Steel Industry of U.K. (*Vide supra*, p. 269.)

Pp. 46–7, 49–50, 51–9, 81–7, 103–5. Deals with the question of supply of labour for mines, steel works, &c., e.g. action taken *re* recruiting, protection and release from colours, transference of men from other industries, utilization of prisoner labour, opposition of men thereto and relative inefficiency of such labour.

Haynes, Talbot. 'Looking after the One-Man Business,' in *System*, July 1917 (vol. 32), pp. 12–16.

Gives instances of arrangements which have been made in various towns for looking after one-man businesses whose owners are called up.

Kershaw, John B. C. 'The New Army and the Recruiting Problem,' in *F. R.*, Feb. 1915 (vol. 97), pp. 308–22.

Discusses present position of recruiting, hindrances thereto, and the new propaganda and canvassing.

Kneeshaw, J. W. Conscription enters the Workshops. National Labour Press, Manchester and London. 14 pp.

Discusses pledges given on introduction of Military Service Bill, and quotes, from Labour and other newspapers, &c., instances of the Act being used to quash strikes and of employers exercising unfair discrimination in releasing men for military service.

Lancet. Weekly.

Contains information very similar to that given in *British Medical Journal, vide supra.*

Maclean, Sir Donald. 'Man-Power and the New Military Service Act,' in *C. R.*, May 1918 (vol. 113), pp. 481–3.

Discusses, from his experience as member of the London Appeal Tribunal, disadvantages of raising military age, owing to the physical unfitness for the army of older men and their importance to industry.

Money, Sir Leo Chiozza. 'Recruiting and Organization for War,'

in *F. R.*, Ap. 1915 (vol. 97), pp. 865–73, and Aug. 1915 (vol. 98), pp. 363–77.

Discusses dangers of indiscriminate recruiting and criticizes Government methods.

Ogden, Chas. 'Saving the One-Man Business,' in *System*, July 1918 (vol. 34), pp. 59–62.

Describes scheme adopted at Bradford for managing one-man businesses whose owners are called up. (*Vide* also under SYSTEM, *infra.*)

Price, W. Cecil. 'The Spare-time Force,' in *F. R.*, May 1918 (vol. 103), pp. 764–74.

Discusses taking over of Home Defence Volunteers by the Army Council and its consequences. Considers the force as the most practical form of economy in man-power that has been devised.

Quarterly Review, Ap. 1916 (vol. 225), pp. 566–84. 'The Recruiting Crisis.'

Describes early steps taken *re* recruiting, national service campaign and Derby scheme. Criticizes Military Service Act.

Round Table, Dec. 1915 (No. 21), pp. 130–5. 'The Conscription Controversy.'

Discusses attitude of Labour.

—— June 1919 (No. 35), pp. 495–508. 'The Military Effort of the British Empire.'

Discusses enlistments and casualties in British Empire.

System, Aug. 1917 (vol. 32), pp. 89–94. 'How the One-Man Business can keep going.'

Articles by four writers as to how problem of looking after one-man businesses can be and is being met.

Williams, W. Llewellyn. 'Military Compulsion,' in *C. R.*, Feb. 1916 (vol. 109), pp. 146–52.

Describes, from anti-conscription point of view, steps leading up to the Military Service Act; argues that Derby scheme was not fairly tried.

e. DEMOBILIZATION AND RESETTLEMENT (CIVILIAN WORKERS) [1]

ℂ *Act of Parliament :*

Defence of the Realm (Employment Exchanges) Act, 1918. 8 & 9 Geo. V. c. 58. 1 p.

Authorizes the taking possession of premises for Employment Exchanges in connexion with demobilization schemes.

ℂ *Official Publications :*

Admiralty. Navy Estimates, 1919–20 and 1920–21.—1919, Cmd. 451. 25 pp. — 1920, Cmd. 619. 18 pp.

Contain brief information as to reduction of work in dockyards and discharges since Armistice, position as regards demand for labour in mercantile shipbuilding yards and future policy as to discharges.

—— Royal Dockyards, utilization of facilities available in, for construction of merchant ships, Report of Committee on. 1920, Cmd. 581. 4 pp.

Discusses possibility of utilizing Admiralty dockyards and docks for mercantile purposes. Refers to steps taken to prevent unemployment by bringing forward naval work.

Ministry of Labour. Out-of-work Donation, Committee of Inquiry into scheme of. Int. Report. 1919, Cmd. 196. 6 pp. Final Report. 1919, Cmd. 305. 18 pp.

Interim Report recommends immediate amendments in procedure in order to

[1] *Vide* also LABOUR: GENERAL, § A, 1, *supra*, pp. 365–74, and ARMY AND NAVY: DEMOBILIZATION AND RESETTLEMENT, § VI, C, *infra*. pp. 517–26.

prevent fraud. Final Report discusses administration of the scheme and extent to which it has been abused, and proposes further modifications.

—— Out-of-work Donation Claims.—Vol. 1. Nos. 1–500 (to Mar. 5, 1919). 1919. ix + 271 pp. —Vol. 2. Nos. 501–1,000 (to Ap. 4, 1919). 1919. ix + 260 pp.—Vol. 3. Selected decisions from Nos. 1,001–4,270. 1920. xviii + 372 pp. H.M.S.O.

—— *The Month's Work.* (*Vide supra*, p. 365.)

Contains information as to employment of demobilized war workers, and disputed claims to unemployment benefit.

—— *Weekly Report.* (Confidential).[1] No. 1, Jan. 4, 1919.

Contains reports from divisions, giving useful information as to demobilization, training and resettlement of civilians and ex-service men, state of employment, difficulties in the way of production, administration of out-of-work donation (appointment of Courts of Referees, work of the Courts, umpires' decisions), schemes for decasualizing port labour, &c. From Jan. 24, 1920 (N.S., No. 1), contains a general survey of the labour situation (position as regards control of industry, disputes, industrial organization, &c.).

Ministry of Reconstruction. Civil War Workers Committee. 1st Int. Report. 1918, Cd. 9117, vol. 14. 11 pp. 2nd to 5th Int. Reports. 1918, Cd. 9192, vol. 14. 27 pp. Final Report. 1918, Cd. 9228, vol. 14. 7 pp.

Give estimates of numbers recruited and numbers in munition works, and discuss arrangements to be made for resettlement of discharged workers, prevention of unemployment, unemployment insurance schemes, demobilization of juveniles, &c.

—— Reconstruction Problems. No. 8. Resettlement of Civil War Workers. H.M.S.O. 1918. 15 pp.

Describes steps taken and policy proposed for resettlement of civil war workers, transition of industry to peace footing, relief of unemployment, &c.

Treasury. Expenditure, present and pre-war, Memorandum on, with particulars of Government staffs at certain dates. 1920, Cmd. 802. 6 pp.

Vide supra, p. 79.

—— Staffs of Government departments on Aug. 1, 1914, Nov. 11, 1918, and subsequent dates, Statements of.

Vide supra, p. 80.

3. MUNITIONS (INCLUDING DILUTION)[2]

¶ *Acts of Parliament :*

Ministry of Munitions Acts. *Vide supra*, p. 231.

Munitions of War Act, 1915. 5 & 6 Geo. V. c. 54. 10 pp.

Ibid. (Amendment) Act, 1916. 5 & 6 Geo. V. c. 99. 10 pp.

Ibid., 1917. 7 & 8 Geo. V. c. 45. 5 pp.

Restoration of Pre-War Practices Act, 1919. (*Vide infra*, p. 442.)

Sec. 2 provides for taking of proceedings under the Act before munition tribunals and Sec. 3 provides for transference of munition tribunals to Minister of Labour.

Wages (Temporary Regulation) Act, 1918. (*Vide infra*, p. 399.)

Sec. 6 repeals certain provisions of Munitions Acts relating to wages.

[1] A set of the *Weekly Report* from Jan. 4, 1919 to June 4, 1921 is to be seen at the Imperial War Museum Library, Women's Work Section (*vide* footnote, p. 473, *infra*).

[2] *Vide* also ENGINEERING: GENERAL, § III, J, 3 a, *supra*, pp. 231–42; LABOUR: GENERAL, § V, A, 1, *supra*, pp. 365–74; DISPUTES, § A, 6, *infra*, pp. 423–34; TRADE UNIONS, § A, 7, *infra*, pp. 441–52 (with regard to the relaxation of trade union customs in munition works); and WOMEN IN ENGINEERING, § D, 2 g, *infra*, pp. 497–502.

¶ *Official Publications :*

Law Reports. Appeals from Munitions Tribunals. Reported by R. F. Stubbing. Vols. 1 to 4 (beginning May 12, 1916, Mar. 15, 1917, June 3, 1918, and Mar. 12, 1920, respectively). Incorporated Council of Law Reporting.

Reports of English Appeals taken to High Court of Justice.

Statutory Rules and Orders for 1915, &c. (*Vide supra*, p. 85.)

Contain Orders with regard to employment and remuneration in Controlled Establishments, leaving certificates, constitution and procedure of tribunals, restoration of pre-war practices, &c.

Committees. Committee on Production. 1st, 2nd, and 3rd Int. Reports, Feb. 16 and 20, Mar. 4, 1915. Reprinted in Report on Conciliation (1919, No. 185, *vide infra*, pp. 426–7), vol. 2, Appx. 1, pp. 1–6.

First Report deals with irregular time-keeping in ship-yards. Second Report recommends relaxation of trade union practices and extension of employment of women in production of shells and fuses, and prohibition of strikes and lock-outs. Third Report recommends suspension of demarcation in engineering and ship-building trades and utilization of semi-skilled or unskilled labour.

Ministry of Munitions. Cases heard before Munitions Tribunals from their inception to Nov. 27, 1915, Return of. 1914–16, Cd. 8143, vol. 55. 6 pp.—Return . . . from Nov. 29, 1915 to July 1, 1916. 1916, Cd. 8360, vol. 23. 9 pp.

Give summary of cases heard.

—— *Dilution of Labour Bulletin.* Monthly, Oct. 1916 to Oct. 1918. Illustrated.

Contains notes and articles on progress of dilution by semi-skilled men, discharged soldiers and women, mainly the latter. Gives illustrations of processes on which they are engaged.

—— *Report on Labour in Controlled Establishments.* Contd., Aug. 1917, as *Report on Labour in Government Establishments.* Monthly. Confidential.[1]

Contains statistics as to numbers employed in Government and (up to July 1917 and in Oct. 1917) Controlled Establishments, hours worked, number of women engaged on work previously done by men, number of enlistments and returns to civil life, and (from Feb. to July 1917) statistics of lost time and opinions of employers *re* time-keeping.

Scotland. Court of Session. Munitions of War Acts, 1915–17. Scottish Appeal Reports, Pts. 1 to 15 (July 1916 to July 1919). Wm. Hodge & Co., Edinburgh and Glasgow. 174 pp. (numbered consecutively).

Reports of cases under Munitions Acts heard before Scottish Court of Appeal.

¶ *Books and Periodicals :*

Alden, Percy. 'The Dilution of Labour,' in *C. R.*, Sep. 1916 (vol. 110), pp. 325–33. 'The Dilution of Skilled Labour,' in *Progress*, Oct. 1916 (vol. 11), pp. 146–55.

Describes steps which led up to dilution of labour, conditions under which it was to be allowed, procedure *re* changes in working conditions, attitude of trade unions, &c.

Amalgamated Society of Engineers. Amending the Munitions of War Act, 1915 : Record of Conferences and of Interview with Prime Minister and Minister of Munitions. A.S.E., 110 Peckham Rd. 1916. 20 pp.

Details steps taken by A.S.E. to get the Act amended, amendments proposed and reasons therefor, and action of Government with regard to the amendments.

[1] A set of Reports from Sept. 1916 to Oct. 1918 is to be seen at the Imperial War Museum Library, Women's Work Section (*vide* footnote, p. 473, *infra*).

Chartres, John. Judicial Interpretations of the Munitions of War Acts, 1915 and 1916. Stevens & Sons. 1917. xvi + 76 pp.

Groups under the various provisions of the Munitions Acts the salient relevant passages in the judgments delivered in munitions tribunal appeal cases.

Cole, G. D. H., and Mellor, W. The Price of the Dilution of Labour: An open letter to the members of the A.S.E. Conference, Dec. 30, 1915. Amal. Soc. of Engineers. 1915. 8 pp.

Discusses what steps should be taken by A.S.E. to safeguard themselves in the matter of dilution.

—— Safeguards for Dilution: What Circulars L2 and L3 mean. Amal. Soc. of Engineers. 1916. 12 pp.

Explains Circulars L2 and L3 (dealing with dilution by women and by semi-skilled and unskilled men, and wages to be paid) and Schedule II of the Munitions Act, 1915 (dealing with relaxations of trade union rules).

Currie, James. 'Industrial Training,' in *Jl. Roy. Soc. Arts*, Mar. 26, 1920 (vol. 68), pp. 300–10 (with discussion).

Gives an account of the training of munition workers (men and women), difficulties encountered, &c., and training of disabled soldiers. Deals mainly with engineering.

Economic Journal, Mar. 1916 (vol. 26), pp. 28–34. 'The Dilution of Skilled Labour.'

Describes steps taken in the engineering industry and discusses attitude of employees.

Fyfe, Thos. Alexander. Employers and Workmen: A Handbook explanatory of their Duties and Responsibilities under the Munitions of War Acts 1915 and 1916, with appendices and a copious index. Wm. Hodge & Co., London and Edinburgh. 2nd ed. 1917. 269 pp.

Gives text of 1915 Act, embodying amendments made by 1916 Act and explaining provisions; rules made by Ministry of Munitions *re* controlled establishments, leaving certificates, munition tribunals, &c.; and classified list of decisions in the appeal tribunals, 1916, with particulars of the cases.

Labour Year Book, 1919. (*Vide supra*, pp. 369–70.)

Chap. III, 'Munitions' (pp. 81–119). Gives text of Act of 1915, with subsequent amendments and notes. Gives account of administration of the Acts, agitation for amendment, dilution, powers and work of tribunals, position of War Munition Volunteers, work of National Advisory Committee on Output, and of Central Munitions Labour Supply Committee, wages regulations, &c.

Mellor, W. *Vide* Cole, G. D. H. and Mellor, W., *supra*.

Muir, W. Errol. 'The Engineers and the War,' in *E. R.*, Aug. 1915 (vol. 21), pp. 78–88.

Describes, from employers' point of view, attitude of the Clyde engineers, giving examples of restriction of output and insistence on trade union conditions.

National Review, Oct. and Nov. 1916 (vol. 68), pp. 242–55, 378–91. (1) 'The Production of Munitions.' (2) 'The Abortion of Munitions: What has caused it?' By 'Engineer'.

(1) Argues that production of munitions is inefficient and discusses causes, e.g. enlistment of engineers, continuous overtime, and especially limitation of output. Discusses extent to which this practice is being carried on, quoting examples. (2) Discusses causes operating to produce inefficiency of supply, on side of workers and employers, failure of Ministry of Munitions to enforce suspension of restrictions.

4. WAGES, COMPENSATION, ETC. [1]

¶ *Acts of Parliament :*

Constabulary and Police (Ireland) Act, 1914. 4 & 5 Geo. V. c. 54. 7 pp.

This and the two following Acts lay down schedules of rates of pay.

Ibid., 1916. 6 & 7 Geo. V. c. 59. 6 pp.

Ibid., 1918. 8 & 9 Geo. V. c. 53. 6 pp.

Industrial Courts Act, 1919. (*Vide infra*, p. 423.)

Pt. III (and Schedule). Provides for continuance in force of certain provisions of Wages (Temporary Regulation) Act, 1918, and for transference to Industrial Court of matters referred under this Act and still unsettled.

Injuries in War (Compensation) Act, 1914. 4 & 5 Geo. V. c. 30. 1 p.

Provides for grant of pensions and other allowances to persons injured whilst employed in connexion with warlike operations, and to their dependants.

Ibid., 1914 (Session 2). 5 Geo. V. c. 18. 1 p.

Ibid., 1915. 5 Geo. V. c. 24. 1 p.

Munitions of War Acts. (*Vide supra*, p. 393.)

Contain provisions with regard to wages.

Police (Pensions) Act, 1918. 8 & 9 Geo. V. c. 51. 2 pp.

Trade Boards Act, 1918. 8 & 9 Geo. V. c. 32. 12 pp.

Wages (Temporary Regulation) Act, 1918. 8 & 9 Geo. V. c. 61. 5 pp.

Ibid. Extension Act, 1919. 9 & 10 Geo. V. c. 18. 1 p.

Workmen's Compensation (War Addition) Act, 1917. 7 & 8 Geo. V. c. 42. 1 p.

Ibid. Amendment Act, 1919. 9 & 10 Geo. V. c. 83. 1 p.

¶ *Official Publications :*

Board of Trade. British Merchant Ships, officers and seamen of, Statement as to compensation for death or injury caused by war risks, and as to other arrangements made for benefit of, during the war. 1917–18, Cd. 8706, vol. 38. 2 pp.

Describes arrangements made as regards pensions and allowances, in case of death, injury or internment, payment of wages when ships are sunk, &c.

—— Government War Risks Insurance Scheme. 1914–16, Cd. 7838. (*Vide supra*, p. 350.)

Contains (pp. 27–8) agreement providing for payment of allowances to dependants of seamen in event of detention and capture of insured ships.

—— *Labour Gazette.* (*Vide supra*, p. 365.)

Gives monthly particulars as to changes in rates of wages and hours in various industries, with approximate number of work-people affected; also periodical statistics as to prices and wages in the coal and iron trades. Annual review, in January, in article entitled 'Employment, Wages, Prices and Disputes.'

—— *Ibid.*, Nov. 1915 (vol. 23), p. 394. 'Profit-sharing in U.K. in 1914–15.' *Ibid.*, July 1920 (vol. 28), p. 355. 'Profit-sharing in 1919.'

Give particulars as to number of schemes, numbers employed, ratio of bonus to wages, &c.

—— *Ibid.*, May 1919 (vol. 27), pp. 172–4. 'The Rise in Rates of Wages during the War.'

[1] *Vide* also LABOUR: GENERAL, § A, 1, *supra*, pp. 365–74, and DISPUTES, &c. § A, 6, *infra*, pp. 423–34.

Gives an account of the increase in wages in principal industries up to April, 1919.

—— *Ibid.*, Oct. 1919 (vol. 27), pp. 416–8. 'The Railway Strike.'

Includes brief account of wages before war and increases during war.

—— *Ibid.*, Nov. 1919 (vol. 27), pp. 463–4; Dec. 1920 (vol. 28), pp. 662–4. 'Adjustment of Wages to Cost of Living.'

Gives particulars of some agreements made regulating wages by cost of living.

—— *Ibid.*, Ap. 1920 (vol. 28), pp. 170–2. 'The Rise in Rates of Wages since July 1914.'

Reviews rise in wages in different trades.

—— *Ibid.*, Aug. 1920 (vol. 28), pp. 421–2. 'Payment of Wages for Holidays.'

Gives information *re* extension since Armistice of the principle of payment of wages for holidays. Gives table of occupations in which agreements exist.

Home Office. Firemen in professional fire brigades in Great Britain, hours, pay, and conditions of service of, Report of Committee on. 1920, Cmd. 710. 16 pp. Minutes of Evidence, with Index. 1920, Cmd. 876. 138 pp.

Discusses present conditions and makes recommendations.

—— Police Service of England, Wales, and Scotland, Report of Committee on. Pt. I. 1919, Cmd. 253. 29 pp. Pt. II. 1920, Cmd. 574. 33 pp. Minutes of Evidence, with Index. 1920, Cmd. 874. viii + 506 pp.

Discusses position as regards pay, pensions and housing conditions, war bonuses granted, recruiting and training, discipline, weekly rest day, &c., and makes recommendations. Appendices to Report (Pt. I) contain tables of pay and allowances of different ranks in different districts, compared with pre-war rates, and (Pt. II) tables of existing and proposed scales of pensions.

—— Prisons, Annual Reports of Commissioners of. (*Vide supra*, p. 69.)

Reports for 1918–19 and 1919–20 contain accounts of formation and working of Prison Officers' Representative Board and scales of pay agreed on.

Ireland. Commission, Vice-regal, on re-organization and pay of Irish Police Forces, Report of. 1920, Cmd. 603. 20 pp.

Makes recommendations with regard to pay, allowances, pensions, &c., of Royal Irish Constabulary and Dublin Metropolitan Police.

—— Irish Convention. Report of Proceedings. 1918, Cd. 9019, vol. 10. 176 pp.

Appx. XV (pp. 117–35), Report of Sub-Committee on Defence and Police to the Grand Committee. Discusses, *inter alia*, questions of pay and pensions of Irish police. Contains statements showing rates of pay of Royal Irish Constabulary (compared with local police forces in Great Britain) and of Dublin Metropolitan Police.

Ministry of Labour. Profit-sharing and Labour Co-partnership in U.K., Report on. 1920, Cmd. 544.

Vide infra, p. 453.

—— *Labour Gazette*. *Vide* BOARD OF TRADE, *supra*.

Ministry of Munitions. Scottish Filling Factory, Official History of. (*Vide supra*, p. 235.)

Gives (pp. 30, 32, 33, 39) total numbers employed in the factory and wages paid, monthly, 1917 and 1918. Describes (pp. 155–8) difficulties in applying wage awards and gives tables of rates paid to different classes and advances made.

Ministry of Reconstruction. Reconstruction Problems, No. 19. State Regulation of Wages. H.M.S.O. 1919. 14 pp.

Describes pre-war and war schemes (i.e. provisions of Munitions Acts, Corn Production Act and Trade Boards Act (1918), organizations set up and their working).

¶ *Books and Periodicals :*

Allen, J. E. 'Some Changes in the Distribution of the National Income during the War.'

Vide supra, p. 73.

Arnot, R. Page. The War and Wages. Pamphlets on Problems of National Reconstruction, No. 5. *The Athenaeum*. 1917. 7 pp.

Shows how war hastened the trend of the wage movement. Gives reasons for existence of false impression that wages have risen during war. Shows how Government intervention affected price of labour and discusses post-war prospects.

Bell, Sir Hugh. 'High Wages : their Cause and Effect,' in *C. R.*, Dec. 1920 (vol. 118), pp. 761–76.

Discusses cause and effect of high wages brought about by war, and urges increased production and lessened consumption.

Bowley, A. L. Prices and Earnings in Time of War.

Vide infra, p. 589.

—— The Division of the Product of Industry.

Vide supra, pp. 73–4.

—— The Change in the Distribution of the National Income, 1880–1913.

Vide supra, p. 74.

—— Prices and Wages in U.K., 1914–20. Carnegie Endowment for International Peace. Economic and Social History of the World War (British Series). Ed. by J. T. Shotwell. Clarendon Press, Oxford. 1921. xx + 228 pp.

Pt. II (pp. 87–199) deals with wages. Describes general movement of wages, and of wages in relation to cost of living. Detailed accounts of movements of wages in various industries, and of women's wages.

Carnegie Endowment for International Peace. Prices and Wages in U.K., 1914–20. *Vide* Bowley, A. L., *supra*.

Cole, G. D. H. The Payment of Wages : A Study in Payment by Results under the Wage-system. Fabian Research Dept. and George Allen & Unwin. 1918. vi + 155 pp.

Describes the various systems of wage-payment and the position in different industries, reasons for adoption of time-*versus* piece-work and *vice versa*. Incidental references to position during war.

—— and **M. I.** The Regulation of Wages during and after the War.

Vide infra, p. 432 (under Labour Research Department).

Cummins, G. D. 'The Need for an Economic Institute in Ireland,' in *Better Business*, Nov. 1917 (vol. 3), pp. 1–18.

Discusses economic conditions in Dublin (bad housing, under-feeding, &c.), intensified by war conditions. Gives a few figures as to wages in 1917.

Deeley, W. T. Labour Difficulties and Suggested Solutions.

Vide supra, p. 367.

Edinburgh Review, Ap. 1920 (vol. 231), pp. 374–91. 'The Government and Wages.'

Surveys in detail the wages question in the various branches of British industry during war and methods adopted by Government to deal with the problem, and adversely criticizes these methods. Makes suggestions for future policy.

Fabian Research Department. *Vide* Labour Research Dept., *infra*.

Gordon, Lionel Smith-, and **O'Brien, Cruise.** Starvation in Dublin.

Vide supra, p. 380.

Hatch, F. H. The Iron and Steel Industry of U.K. (*Vide supra*, p. 269.)

Pp. 81–7. Describes the organization of labour in haematite ore mines in Lancashire and Cumberland, numbers

employed, wages before war and end of 1918, awards during war and difficulty of carrying them out, strikes, &c.

Holloway, John. 'Remuneration of Labour and its relation to Output,' in *Cassier's Engineering Monthly*, July 1918 (vol. 54), pp. 21–9.

Discusses generally systems of remuneration. Describes success of a method of payment by results introduced by a Hull firm for duration of war. Refers to war problem of low earnings of highly skilled workmen in comparison with those of unskilled repetition workers.

Labour Research Department [formerly **Fabian Research Department**]. Mem. No. 4. Wages and Prices during the War. By Margt. I. Postgate. Revised ed. Ap. 1918. 16 pp.

Discusses rise in prices and cost of living (from official statistics and figures supplied by War Emergency National Workers Committee), course of wages in different trades, increases in Old Age Pensions, workmen's compensation, Army and Navy pay and allowances and pensions. Contains notes on the more important Government Committees dealing with regulation of wages.

—— Mem. No. 7. The Regulation of Wages during and after the War.

Vide infra, p. 432.

Labour Year Book, 1919. *Vide supra*, pp. 369–70.)

Pp. 232–40, 'Wages during and after the War'. Discusses course of wages, disparity between increase in wages and in cost of living, changes in family earnings, future prospects, &c.

Macassey, Lynden. 'The National Wage Position,' in *N. C.*, Nov. 1920 (vol. 88), pp. 760–73.

Discusses the position as regards system and standard of wages and attitude of wage-earners caused by war, and outlines a national wage policy.

Postgate, Margaret I. Wages and Prices during the War. *Vide* Labour Research Department, *supra*.

Rawson, S. W. 'War and Wages in the Iron, Coal, and Steel Industries,' in *Econ. Jl.*, June 1916 (vol. 26), pp. 174–82.

Gives some statistics showing fluctuations in wages monthly, 1913–15, and reasons for the same.

Snowden, Philip. Wages and Prices. The Faith Press. 1920. viii + 124 pp.

Examines the wages system before war and advances during war, showing course of State legislation *re* wages and its effect. Discusses relation of wages to price increments and causes of rise in prices and profits.

Walton, Cecil. Never Again! Not after the War, but now. W. S. Bissett & Son, Glasgow. 1917. 20 pp.

Discusses methods of payment. Criticizes piece work and premium bonus system and advocates collective piece work.

Watson, H. Cecil. 'Labour Conditions in Dublin and the Coming Revolution,' in *Better Business*, Feb. and May 1918 (vol. 3), pp. 146–63, 244–52.

Gives examples of budgets of working men and women obtained in spring of 1917 and published in *Evening Telegraph*, Feb. 24 to April 28. Discusses solution of wage problem and explains working of profit-sharing in his own concern.

5. OTHER CONDITIONS OF EMPLOYMENT

a. GENERAL (INCLUDING WELFARE WORK[1])

¶ *Act of Parliament :*

Police, Factories, &c. (Miscellaneous Provisions) Act, 1916. 6 & 7 Geo. V. c. 31.

Pt. II, Sec. 7, empowers Home Secretary to make Orders for welfare of workers in factories with regard to certain matters.

¶ *Official Publications :*

Statutory Rules and Orders, 1917, 1918, 1919. (*Vide supra*, p. 85.)

Contain Welfare Orders made under Police, Factories, &c. (Miscellaneous Provisions) Act, 1916.

Home Office. Factories and Workshops, Annual Reports of Chief Inspector of. — (Report, 1914) 1914–16, Cd. 8051, vol. 21. v + 133 pp.—(Report, 1915) 1916, Cd. 8276, vol. 9. 15 pp.—(Report, 1916) 1917–18, Cd. 8570, vol. 14. 10 pp. — (Report, 1917) 1918, Cd. 9108, vol. 10. 24 pp. — (Report, 1918) 1919, Cmd. 340. xiii + 83 pp.—(Report, 1919) 1920, Cmd. 941. 124 pp.

Report for 1914 deals with routine matters (sanitation, safety, hours, truck, &c.), with chapters on employment of women and girls. Reports for 1915–17 deal only with war activities, especially employment of women, welfare work, hours and Emergency Orders, also (Report for 1917) illegal employment of children and young girls. Contain, *passim*, remarks *re* effect of overtime on health of workers and reports on industrial diseases. Report for 1918 reviews war period. Report for 1919 includes an account of the change-over from war to civil production.

—— Messrooms and Canteens at small Factories and Workshops. H.M.S.O. 1918. 9 pp.

Gives advice as to construction, equipment, management, &c., with illustrations.

—— Protective Clothing for Women and Girl Workers employed in Factories and Workshops. H.M.S.O. 1917. 15 pp.

Gives illustrations of processes in which protective clothing is required and types recommended.

—— Seats for Workers in Factories and Workshops. H.M.S.O. 1920. 16 pp.

Discusses importance of provision of seats and best types of seats for different kinds of work. With illustrations.

—— Welfare and Welfare Supervision in Factories and Workshops. H.M.S.O. 1919. 15 pp.

Discusses scope of welfare work, arrangements to be made in different factories for carrying out the work, qualifications and training of Welfare Supervisors, &c.

—— Welfare Training and Welfare Work. Report of Conference held at Home Office, July 2, 1920. H.M.S.O. 1920. 8 pp.

Contains short summaries of papers read, dealing with training of welfare supervisors (existing provision, numbers

[1] For further articles reference may be made to the 'Bibliography of Industrial Efficiency and Factory Management', by H. G. T. Cannons (*vide supra*, p. 103), Section LVIII, pp. 128–31, on Welfare Work; and to the 'Bibliography of Welfare Work', compiled by Mrs. Watts, in *Bulletin of the British Library of Political Science*, Aug. 1920 (No. 11), pp. 15–18.

The collection made by the Women's Work Section of the Imperial War Museum Library (*vide* footnote on p. 473, *infra*) contains reports, written in many cases specially for the War Museum, by officials of the Ministry of Munitions and welfare superintendents, on welfare work at various factories, work of the Welfare Department of the Ministry, particulars *re* Welfare Supervisors appointed at National Factories and their salaries, &c.

undergoing training, methods to be adopted, &c.), and general aspects and developments of welfare.

Ministry of Labour (Dept. of Civil Demobilisation and Resettlement). Handbook for Welfare Supervisors and Apprentice Masters. [A reprint of handbook originally issued by Ministry of Munitions]. 1919. 126 pp.

Discusses duties of welfare supervisors for boys and problems to be dealt with (engagement, training and apprenticeship, recreation, &c).

—— *Weekly Report.* (*Vide supra*, p. 393.)

Contains reports from divisions as to progress of welfare work, for boys and women, after Armistice.

Ministry of Munitions. Health of Munition Workers Committee. Handbook for Welfare Supervisors and Apprentice Masters. Reprinted by MINISTRY OF LABOUR, *q.v.*, *supra*.

—— *Ibid.* Health of the Munition Worker. H.M.S.O. 1917. 138 pp.

A handbook for managers, &c., in munition works. Deals with subjects discussed in Memoranda and Final Report of Health of Munition Workers Committee (*vide infra*).

—— *Ibid.* Memoranda[1] on Canteens and Dietary of Workers :—

No. 3. Report on Industrial Canteens. 1914–16, Cd. 8133, vol. 29. 7 pp.

No. 6 (Appx. to No. 3). Canteen Construction and Equipment. 1916, Cd. 8199, vol. 23. 7 pp.

No. 11 (a second Appx. to No. 3). Investigation of Workers' Food and Suggestions as to Dietary. Report by Leonard E. Hill. 1916, Cd. 8370, vol. 23. 11 pp.

No. 19 (Revised ed. of No. 11). 1917–18, Cd. 8798, vol. 20. 12 pp.

No. 3 discusses need for canteens and conditions to be observed to ensure success. Nos. 11 and 19 give results of inquiries into food provided at works canteens, restaurants and hostels, and food brought by workers, with suggested dietary.

—— *Ibid.* Memoranda on Welfare and other conditions :—

No. 2. Welfare Supervision. 1914–16, Cd. 8151, vol. 55. 7 pp.

No. 9. Ventilation and Lighting of Munition Factories and Workshops. 1916, Cd. 8215, vol. 23. 9 pp.

No. 14. Washing Facilities and Baths. 1916, Cd. 8387, vol. 23. 8 pp.

No. 17. Health and Welfare of Munition Workers outside the Factory. H.M.S.O. 1917. 9 pp.

No. 2 discusses need for welfare supervision (for men and women) and duties to be undertaken. No. 9 makes recommendations with regard to ventilation, &c. No. 14 makes recommendations for provision of washing facilities and suggestions as to construction, giving some evidence of desire of workers for such facilities. No. 17 (not published) makes recommendations with regard to provision for housing accommodation and transit, arrangements for sickness, recreation, &c.

—— *Ibid.* Final Report.

Vide infra, p. 417.

—— Women's Service Committee. Report and Minutes of Evidence. 1916. (Confidential[2].)

Discusses value of voluntary service in connexion with welfare of munition workers (especially canteens) and in other directions. Evidence contains a considerable amount of information as to the administration of canteens in munition works.

Ministry of Reconstruction. Subsidiary Health and Kindred

[1] For further memoranda issued by this Committee *vide infra*, pp. 416, 419–20, 469, 497.

[2] A copy of the Report and Minutes of Evidence is to be seen at the Imperial War Museum Library, Women's Work Section. The Minutes are in typescript.

Services for Women, Memorandum on. 1918. (*Vide infra*, p. 476.)

Pp. 15–16. Discusses progress of the welfare movement. Gives some figures as to number of welfare supervisors appointed and salaries usually paid.

National Health Insurance Commission. Medical Research Committee. An Inquiry into the Composition of Dietaries, with special reference to the Dietaries of Munition Workers. H.M.S.O. 1918. 48 pp.

Discusses statistics of food consumption in 22 hostels or canteens, catering for 19,000 munition workers. (Some of this information already published in Mem. No. 19, of Health of Munition Workers Committee, *supra*, p. 410). Appx. III, 'Food in Hostels,' by Miss E. M. Chrystal, describes practice as regards provision of food in hostels and difficulties experienced; gives cost of catering, Nov. 1917.

¶ *Books and Periodicals:*

Ashley, Sir Wm. J. 'The Task of the Welfare Supervisor,' in *Econ. Jl.*, Dec. 1916 (vol. 26), pp. 448–58.

Shows how war has revealed defects in the industrial system, especially in connexion with the human side of factory life, and discusses new duties awaiting welfare workers.

Austin, Herbert. 'How I made Substitution a Success,' in *System*, May 1917 (vol. 31), pp. 315–20.

Includes short account of welfare arrangements made at writer's works.

Cassier's Engineering Monthly. (*Vide supra*, p. 241.)

Contains frequent notes and articles on welfare work.

Committee, Joint, on Social Studies. Report on the Selection and Training of Welfare Supervisors in Factories and Workshops. P. S. King & Son. 1917. 8 pp.

Is report of a committee appointed at a Conference of representatives of University Departments. Makes suggestions as to course of training for welfare supervisors.

Haynes, Talbot. 'Serving 2,500,000 Meals a Week,' in *System*, June 1918 (vol. 33), pp. 371–4.

Describes briefly canteen arrangements made at some firms (unnamed), quoting opinions of managers, &c., as to effect of canteens on reduction in sickness.

Hutton, J. E. Welfare and Housing. (*Vide supra*, p. 41.)

Gives some account of arrangements made by Vickers, Ltd., for welfare of employees, e.g. catering in hostels and provision of canteens, transit of workers, medical treatment, &c., and discusses what should be done.

Hyde, Robert R. 'Boys' Welfare Work,' in *Cassier's Engineering Monthly*, June 1918 (vol. 53), pp. 435–7.

Refers to formation of Boys' Welfare Association and gives an account of the introduction of a welfare scheme for men and boys at one factory.

Kerr, Constance U. Guide to Industrial Welfare Work: For beginners and others. Co-operative Press Agency, Manchester. [1920]. 82 pp.

Discusses qualifications of a welfare supervisor and duties to be undertaken. Author is Welfare Supervisor at C.W.S. Works, Irlam.

M., E. 'The Training of the Welfare Worker,' in *E. W.*, Sep. 1916 (vol. 31), pp. 240–51.

Discusses shortage of workers during war, means of meeting future demand, social and economic problems of welfare work, training available, &c.

Matthias, E. 'Getting more from workers by giving them more,' in *System*, May 1918 (N.S. vol. 33), pp. 308–14.

Discusses what the duties of a welfare superintendent should be and describes welfare system at Phoenix Dynamo Manufacturing Co.

Morgan, T. Edwards. 'Some

Difficulties encountered on starting Welfare Work in a Textile Mill,' in *Jl. Textile Inst.*, July 1917 (vol. 8), pp. 133–8 (with discussion).

Discusses difficulties met in introduction of welfare work into cotton mills, scope of welfare work, &c.

Proud, E. D. Welfare Work. With Foreword by D. Lloyd George. G. Bell & Sons. 1916. xx + 363 pp.

An account of the growth and scope of welfare work. Written mainly before war. Foreword refers to steps being taken by Government to introduce welfare system into munition factories.

System, Dec. 1917 (vol. 32), pp. 394–8. 'Should your Workers have a Canteen?'

Describes canteen arrangements made by two firms.

Walton, Cecil. Welfare Study: What it is. Maclure, Macdonald & Co., Glasgow. 1917. 24 pp.

Describes generally what welfare means.

Webb, Sidney. The Works Manager To-day. Longmans, Green & Co. 1917. 162 pp.

Chap. xi, '"Scientific Management" and "Welfare Work"'. Discusses (pp. 138–52) difficulties of welfare work, attitude of the workers, &c.

¶ *Journals:*

Boys' Welfare Journal. Contd. from Jan. 1920 as *Journal of Industrial Welfare.* Monthly. 9*d.*

Organ of the Boys' Welfare Association. Contains information as to progress of welfare work, mainly among men and boys, continuation schools, works schools, &c. From April 1920 contains bibliographies of current literature dealing with welfare, education and training, industrial efficiency, &c.

Journal of Industrial Welfare. *Vide* Boys' Welfare Journal, *supra.*

Welfare Work. Monthly. 5*s.* p.a.

The Journal of the Welfare Workers' Institute. Gives information as to aims and progress of welfare work, reports of conferences, &c. Deals with welfare work for boys as well as women and girls.

b. HOURS, OUTPUT, INDUSTRIAL FATIGUE

¶ *Official Publications:*

Home Office. Factories and Workshops, Annual Reports of Chief Inspector of.

Vide supra, p. 407.

—— Industrial Fatigue, Int. Report of an investigation of, by physiological methods, by A. F. Stanley Kent. 1914–16, Cd. 8056, vol. 24. 34 pp. 2nd Int. Report. 1916, Cd. 8335, vol. 6. 76 pp.

First Report discusses methods of testing industrial fatigue and results of experiments started before war. 2nd Report gives results of experiments at seven factories, especially two engaged on war work; discusses, with statistics and charts, influence of fatigue and overtime and pre-breakfast work on output, importance of canteens, influence of overtime on genera health of worker, &c.

—— Two Shift System, employment of women and young persons on, Departmental Committee on. Report and Minutes of Evidence. 1920, Cmd. 1037, 1038. 13 pp., 196 pp.

Examines evidence as to effect of the two shift system on health, &c., and makes recommendations with regard to introduction of the system.

Medical Research Council and **Dept. of Scientific and Industrial Research.** Industrial Fatigue Research Board, Reports of. H.M.S.O. No. 1. The Influence of Hours of Work and Ventilation on Output in Tin-plate Manufac-

Medical Research Council and **Dept. of Scientific and Industrial Research** (*cont.*)

ture. [By H. M. Vernon]. 1919. 29 pp.

Discusses statistics, ranging from 1911 to 1918, of output in relation to hours and ventilation in five factories.

—— *Ibid.*, No. 2. The Output of Women Workers in relation to Hours of Work in Shell-making. [By Ethel E. Osborne]. 1919. 23 pp.

Gives results of investigation into effects on output of reducing hours of labour of women munition workers.

—— *Ibid.*, No. 3. A Study of Improved Methods in an Iron Foundry. [By C. S. Myers]. 1919. 8 pp.

Describes results of experiment in movement study, shorter hours, &c., on output of munitions.

—— *Ibid.*, No. 5. Fatigue and Efficiency in the Iron and Steel Industry. 1920. 99 pp.

Describes processes and discusses, with statistics, relation of hours to output, seasonal variations in output, variation in efficiency of plant in different works, &c. Deals mainly with post-war conditions. Gives (pp. 78–94) statistics, tabulated by writers from original records, of sickness and death rates among steel workers and blast-furnace men, comparing war with pre-war period.

—— *Ibid.*, No. 6. The Speed of Adaptation of Output to altered Hours of Work. [By H. M. Vernon]. 1920. 33 pp.

Discusses, with statistics, results of investigations, mainly made during war, into hours and output of men and women, with reference especially to rate of adaptation to altered conditions. Describes again, with further data, results of investigation recorded in Mem. Nos. 12 and 18 and Int. Report of Health of Munition Workers Committee (*infra*, pp. 416, 417). Shows importance, not recognized during war, of shorter hours for skilled tool-setters.

Ministry of Munitions. Health of Munition Workers Committee. Memoranda on Hours of Work:—

No. 1. Report on Sunday Labour. 1914–16, Cd. 8132, vol. 29. 6 pp.

No. 5. Hours of Work. 1916, Cd. 8186, vol. 23. 9 pp.

No. 12 (Appx. to No. 5). Statistical Information concerning Output in relation to Hours of Work (collected by H. M. Vernon). 1916, Cd. 8344, vol. 23. 11 pp.

No. 18 (Appx. to No. 12). Further Statistical Evidence concerning Output with special reference to influence of Sunday Labour. 1917–18, Cd. 8628, vol. 20. 18 pp.

No. 20 (Supplementary to No. 5). Weekly Hours of Employment. 1917–18, Cd. 8801, vol. 20. 7 pp.

No. 1 discusses extent to which Sunday labour is adopted and its disadvantages, and recommends its discontinuance. No. 5 discusses disadvantages of overtime, effect on health, conflicting opinions as to profitableness, practice as regards shifts, disadvantages of night work; recommends limitation of overtime, &c. Nos. 12 and 18 give results of a statistical enquiry into output and time-keeping of women, men and youths, engaged on work of different degrees of heaviness. No. 18 shows effect of Sunday labour, gives figures of daily variations in output of day and night shifts and discusses alleged existence of trade union restrictions on output. No. 20 quotes results of investigations and recommends further reduction in hours.

—— *Ibid.* Mem. (No. 7) on Industrial Fatigue and its Causes. 1916, Cd. 8213, vol. 23. 11 pp.

Discusses generally causation of fatigue, signs and symptoms, methods of testing, &c., and extent of fatigue among munition workers.

—— *Ibid.* Report (Int.) on 'Industrial Efficiency and Fatigue'. 1917–18, Cd. 8511, vol. 16.

121 pp.—Report (Final) on 'Industrial Health and Efficiency'. 1918, Cd. 9065, vol. 12. 182 pp.

Interim Report contains a collection of statistical industrial and medical studies. Nos. 1 and 2 are reprints of Memoranda, Nos. 7 and 12, *supra*. No. 3 (pp. 26–40), 'The comparative efficiencies of day work and night work in munition factories,' discusses effect of night work on output and time-keeping among men and women. No. 4 (pp. 41–67), 'The causes and conditions of lost time,' by T. Loveday, analyses time-keeping records in a number of firms; discusses extent to which lost time is due to sickness and extent of sickness before and during war; discusses effect of work before breakfast on output, health and time-keeping, and gives results of abolition of early work. No. 5 (pp. 69–84), 'Incentives to work, with special reference to wages', discusses what methods of payment furnish most incentive, necessity of intelligibility of system adopted, importance of rest pauses, &c. Medical studies, No. 1 (pp. 86–109), a report by T. H. Agnew, discusses results of an investigation into the health of 3,052 men and boys, gives tables of standard of physique in relation to duration of employment, hours of work and heaviness of work, time lost through illness or accident, hours of sleep obtained, &c. No. 2 (pp. 110–21), 'Inquiry into the health of women engaged in munition factories,' by Dr. Janet M. Campbell and Dr. Lilian E. Wilson, discusses results of an inquiry into health of 1,326 women and girls, with statistics.

Final Report deals with employment of women, hours, lost time, food and canteens, arrangements for dealing with sickness and accidents, special industrial diseases, cleanliness and ventilation, washing facilities, seats, welfare supervision, 'outside welfare', &c., &c. Makes recommendations with regard to these matters and gives information as to existing conditions. Much of the information is already published in the separate Memoranda (*supra*, pp. 409–10 and footnote). Appendix contains report by J. M. Campbell on further inquiry into health of munition workers, giving results of investigation into health of 1,183 women and girls.

¶ *Books and Periodicals:*

Bentinck, Lord Henry. Industrial Fatigue and the relations between Hours of Work and Output, with a Memorandum on Sickness. P. S. King & Son. 1918. 43 pp.

Gives some information, from inquiry made, as to results of reduction of hours on wages and time-keeping. Gives opinions of Friendly Societies as to effect of long hours on sickness during war, with statistics as to claims made by men at Woolwich Arsenal and men and women in hosiery and jute industries, showing proportion of claims attributable to strain. (Some of this material appeared in *C. R.*, Feb. 1918 (vol. 113), pp. 144–51).

British Assoc. for Advancement of Science. The Question of Fatigue from the Economic Standpoint. Int. and 2nd Int. Reports of Committee, in *Reports of Brit. Assoc.*, 1915, pp. 283–349, and 1916, pp. 251–74.

Discusses generally nature and causes of fatigue, tests to be adopted, &c. Statistical tables and diagrams of output and accidents. Data discussed are mainly pre-war.

Collis, Edgar L. The Industrial Clinic. John Bale, Sons & Danielsson. 1920. vii + 239 pp.

Chap. iii, pp. 50–74, 'Industrial Efficiency and Fatigue,' by H. M. Vernon. Discusses results of investigations into relation of hours of work to output, lost time and sickness and accidents, and practical lessons to be learned. (Results quoted are mostly from official publications, *vide* Report, No. 6, of Industrial Fatigue Research Board, *supra*, p. 415.)

Kent, A. F. Stanley. 'Industrial Fatigue and Efficiency,' in *Jl. Textile Inst.*, Dec. 1917 (vol. 8), pp. 185–98 (with discussion).

Discusses generally the conditions causing industrial fatigue, length of working day, outside influences, dietary, &c. Reference made to attitude of the workers with regard to daylight saving.

System, July, Aug., Sep., Oct., 1918 (vol. 34), pp. 5–8, 81–8, 157–64, 227–34. Series of Articles

on Industrial Fatigue. 'The 75-Minute Hour.' 'Working against Time.' 'Working Hours that prevent Fatigue.' 'Making the Worker forget Fatigue.'

Quotes results of experiments made as to effect of long hours on output and accidents. Urges importance of shorter hours, rest periods, and other methods of preventing fatigue.

Vernon, H. M. 'Industrial Efficiency and Fatigue.' *Vide* COLLIS, E. L., *supra*.

c. ACCIDENTS AND SICKNESS[1]

¶ *Official Publications :*

Home Office. Factories and Workshops, Annual Reports of Chief Inspector of.

Vide supra, p. 407.

—— First Aid and Ambulance at Factories and Workshops. H.M.S.O. 1919. 21 pp.

Contains advice as to establishment of first aid and ambulance service. With plans and illustrations.

Medical Research Council and **Dept. of Scientific and Industrial Research.** Industrial Fatigue Research Board, Reports of. No. 4. The Incidence of Industrial Accidents upon Individuals with special reference to Multiple Accidents. [By M. Greenwood and Hilda W. Woods]. H.M.S.O. 1919. 28 pp.

Discusses, from statistics of accident records at a National factory, 1917–18, whether certain individuals are more susceptible to accidents than others.

—— *Ibid.*, No. 5. Fatigue and Efficiency in the Iron and Steel Industry.

Vide supra, p. 415.

Ministry of Munitions. Health of Munition Workers Committee. Memoranda on Sickness, &c. :—

No. 8. Special Industrial Diseases. 1916, Cd. 8214, vol. 23. 8 pp.

No. 10. Sickness and Injury. 1916, Cd. 8216, vol. 23. 10 pp.

No. 15. The Effect of Industrial Conditions upon Eye-sight. 1916, Cd. 8409, vol. 23. 8 pp.

No. 16. Medical Certificates for Munition Workers. 1917–18, Cd. 8522, vol. 20. 4 pp.

No. 21. An Investigation of the Factors concerned in the causation of Industrial Accidents. By H. M. Vernon. 1918, Cd. 9046, vol. 15. 46 pp.

No. 8 deals with industrial diseases specially affecting munition workers and describes symptoms and methods of prevention. No. 10 makes recommendations with regard to measures which should be adopted for dealing with sickness and injuries. No. 15 gives some evidence as to increase of eye cases among munition workers treated at hospital and makes recommendations for dealing with injuries to eyesight. No. 16 gives model certificate to be supplied to doctors, owing to frequently unsatisfactory nature of certificates produced by munition workers. No. 21 describes results of inquiry into accident records at four munition factories, and discusses incidence of accidents in relation to speed of production, fatigue, psychical influences, nutrition, &c.

—— *Ibid.* Reports (Int. and Final) on Industrial Efficiency, Fatigue, and Health.

Vide supra, pp. 416–7.

National Health Insurance Commission. Medical Research Committee. Special Report Series, No. 11. The Causation and Prevention of Tri-nitro-toluene (T.N.T.)

[1] *Vide* also under § A, 5, b, *supra*.

Poisoning. H.M.S.O. 1918. viii + 85 pp.

Describes researches and experiments made by the Committee, particulars of cases of poisoning, prophylactic measures and results.

—— *Ibid.*, No. 22. An Enquiry into the Prevalence and Aetiology of Tuberculosis among Industrial Workers, with special reference to Female Munition Workers. H.M.S.O. 1919. 59 pp.

Discusses statistics of tuberculosis during war, and how far increase of mortality is due to industrialization. Gives account of inquiry made at Birmingham in 1917 into tuberculosis among women in 'Controlled Establishments' (i.e. mainly on munitions).

War Cabinet. Women in Industry, Report of War Cabinet Committee on. (*Vide infra*, p. 447.)

Contains (pp. 218–53) memorandum on health of women in industry, by Dr. Janet M. Campbell, discussing effect of industrial employment on health of women, pre-war and under war conditions, effect on birth-rate and infant mortality rate, proposals for maternity benefits.

¶ *Books and Periodicals :*

Cunningham, B. M. *Vide* LEARMOUTH, A. L., and CUNNINGHAM, B. M., *infra.*

Institute Journal and Optometrist. Mar. and Dec. 1917 (vol. 6), pp. 32–5, 127, 132; Mar. and Ap. 1918 (vol. 7), pp. 35–6, 46–8.

Contains information as to scheme formulated by Institute of Ophthalmic Opticians for provision of opticians to test eyesight of munition workers. Refers (Ap. 1918) to eyestrain suffered by persons engaged on war work.

Learmouth, Agnes L., and Cunningham, Barbara M. 'Observations on the Effects of Tri-nitro-toluene on Women Workers,' in *Lancet*, Aug. 12, 1916, pp. 261–4.

Describes symptoms and treatment. (*Vide* also leader on T.N.T. poisoning in *Lancet*, Dec. 1916, p. 1021.)

Legge, T. M. *Vide* under MANCHESTER, UNIVERSITY OF, and MEDICAL SOC. OF LONDON, *infra.*

Manchester, University of. Industrial Administration : A Series of Lectures by A. E. Berriman and others. Univ. Press, Manchester. Longmans, Green & Co. 1920. vii + 203 pp.

Pp. 81–98, 'Occupational Diseases,' by T. M. Legge. Discusses progress made in prevention of industrial diseases. Describes war-time experience with regard to T.N.T. and dope poisoning, and experiments for preventing anthrax.

Medical Society of London. *Transactions*, 1914–15 (vol. 38), pp. 129–56. 'An Outbreak of Toxic Jaundice of a new type amongst Aeroplane Workers : Its Clinical and Toxicological Aspect,' by Wm. Henry Willcox. 'Its Pathological Aspect,' by B. H. Spilsbury. 'Its Industrial Aspect,' by T. M. Legge. And discussion.

Dr. Willcox describes cases of poisoning at aeroplane factories, symptoms, precautions and treatment. Dr. Legge describes conditions of work at the factory where incidence is greatest, measures taken for prevention, &c.

O'Connor, Shann Patrick. 'First Aid in the Factory,' in *System*, Ap. 1918 (vol. 33), pp. 227–30.

Gives some figures as to time lost owing to accidents and compensation paid, in a large factory where first-aid work has been organized.

O'Donovan, W. J. 'The Epidemiology of Tri-nitro-toluene Poisoning,' in *Proc. Roy. Soc. Medicine*, Ap. 12, 1918 (vol. 11, Pts. I and II), Section of Epidemiology and State Medicine, pp. 148–67 (with discussion).

Describes results of measures taken to

prevent T.N.T. poisoning. Gives official figures (not published) of cases at filling factories, showing reduction in numbers since adoption of precautions and varying incidence at different factories.

Oliver, Sir Thomas. 'The Hygiene of Occupation during the War,' in *Medical Press and Circular*, Ap. 18 and 25, 1917 (N.S., vol. 103), pp. 322–5, 346–7.

Discusses briefly effect of war work as shown in statistics of accidents, increase of sickness in lead works, experience of Boilermakers' Society as to sickness and premature invalidity, reduction of female sickness claims as result of high wages.

Royal Society of Medicine. *Proceedings*, Jan. 23, 1917 (vol. 10, Pt. I), pp. 1–106. 'Special discussion on the Origin, Symptoms, Pathology, Treatment, and Prophylaxis of Toxic Jaundice observed in Munition Workers.' (Also published separately. Longmans, Green & Co.)

Gives an account of the extent of the problem, number of cases, &c. Mainly technical.

—— *Ibid.*, May 24, 1918 (vol. 11, Pts. I and II), Section of Epidemiology and State Medicine, pp. 133–48. 'Discussion of the Incidence of Industrial Tuberculosis.'

Unconnected with war conditions except that (pp. 142–3) M. Greenwood discusses relation between increased mortality from tuberculosis among women during war and increased industrialization.

Ruxton, Wm. L. 'An Investigation into the Causes and Prevention of Industrial Diseases due to Tetryl,' in *Brit. Jl. Dermatology*, Jan. to Mar. 1917 (vol. 29), pp. 18–29.

Discusses prevalence of dermatitis, symptoms and treatment, precautions taken and results.

Stewart, Matthew J. 'Toxic Jaundice in Munition Workers,' in *Lancet*, Jan. 27, 1917, pp. 153–5.

Gives technical description of cases of fourteen munition workers.

White, P. Prosser. 'Some New Forms of Occupational Dermatoses,' in *Lancet*, Feb. 19, 1916, pp. 400–5.

Describes cases of dermatitis among munition workers, causes, prevention and treatment.

Willcox, Wm. Henry. *Vide* under MEDICAL SOC. OF LONDON, *supra*.

6. DISPUTES, INDUSTRIAL UNREST, ARBITRATION AND CONCILIATION[1]

℄ *Acts of Parliament :*

Industrial Courts Act, 1919. 9 & 10 Geo. V. c. 69. 5 pp.

Provides for establishment of Industrial Court and Courts of Inquiry in connexion with trade disputes.

Munitions of War Acts. (*Vide supra*, p. 393.)

Contain provisions with regard to arbitration.

Wages (Temporary Regulation) Act. (*Vide supra*, p. 399.)

Provides for establishment of Interim Court of Arbitration.

℄ *Official Publications :*

Board of Trade [later **Ministry of Labour**]. *Labour Gazette*. (*Vide supra*, p. 365.)

Contains, monthly, statistics as to

[1] *Vide* also under LABOUR: GENERAL, § A, 1, *supra*, pp. 365–74, and WAGES, § A, 4, *supra*, pp. 399–406.

trade disputes (number, causes, results, duration, number of workpeople involved); article in Oct. 1915, pp. 355–6, on 'Trade Disputes in 1914'; annual review in Jan. in article entitled 'Employment, Wages, Prices, and Disputes'. Contains also, monthly, particulars of recent conciliation and arbitration cases and, from Mar. 1915, of decisions given by Committee on Production and (1920) Industrial Court.

Civil Service Arbitration Board (Conciliation and Arbitration Board for Government Employees). Awards and Agreements. Vol. 1. May 1, 1917 to Aug. 1, 1919. H.M.S.O. 1919. 200 pp.

Gives particulars of awards and agreements in period mentioned. Table of war bonuses granted at various dates.

—— Record of Proceedings for 1917. 1918, Cd. 9017, vol. 7. 16 pp.

Describes first year's work of the Board. Gives particulars of claims for war bonus heard and awards issued.

Commissions, Royal. Industrial Unrest, Commission of Enquiry into. Reports of Commissioners for Divisions Nos. 1 to 8 (North-Eastern Area, North-Western, Yorkshire and E. Midlands, W. Midlands, London and S. Eastern, South-Western, Wales including Monmouthshire, and Scotland). 1917–18, Cd. 8662–8669, vol. 15.—Summary of the Reports by G. N. Barnes. 1917–18, Cd. 8696, vol. 15. 8 pp.

Discuss evidence of existence of unrest and the causes, e.g. operation of Military Service and Munitions Acts, dilution, wages questions, Government delay in settling disputes, industrial fatigue, &c., &c.

Committees. Committee on Production. Findings and Awards. —Vol. 1 (Findings, May to Aug. 21, 1917). 159 pp.—Vol. 2 (Findings, Sep. 1 to Dec. 31, 1917). 257 pp. — Vol. 3 (Committee on Production and Special Arbitration Tribunal, Awards, Jan. to Mar. 31, 1918). 319 pp. — Vol. 4 (Awards, Ap. to June, 1918). 483 pp. — Vol. 5 (Awards, July to Sep. 1918). xxviii + 756 pp. — Vol. 6 (Awards, Oct. 1 to Nov. 21, 1918). xxvii + 549 pp. (Vols. 1 to 4, folio. Vols. 5 and 6, 8vo.).

—— *Ibid.* and Special Arbitration Tribunal. Memorandum of Proceedings, May, 1917 to Ap. 1918. 1918, Cd. 9126, vol. 12. 9 pp. —*Ibid.*, May to Nov. 1918. 1919, Cmd. 70. 8 pp.

Give number of awards issued and in what trades, agreements between employers and trade unions for periodical review of wages position by Committee on Production, text of awards in engineering and foundry trades.

Conciliation and Arbitration Board for Government Employees. *Vide* CIVIL SERVICE ARBITRATION BOARD, *supra*.

Conferences. Industrial Conference, Report of Provisional Joint Committee presented to meeting of, Ap. 4, 1919. 1919, Cmd. 501. 16 + xiv pp.

Makes recommendations for measures to be taken (maximum hours, minimum wages, formation of National Industrial Council, &c.). Appendix contains memorandum by trade union representatives on causes of, and remedies for, labour unrest.

Ministry of Labour. Committee on Production, Interim Court of Arbitration and Industrial Court, General Awards of, relating to engineering and foundry trades, together with awards in special district cases, &c. H.M.S.O. 1920. x + 125 pp.

—— Conciliation Act, 1896, 12th Report of Proceedings under, and Report on Arbitration under the Munitions of War Acts, for 1914–18.—Vol. 1, General Report.

Ministry of Labour (*cont.*)

63 pp. — Vol. 2 (Apps. I–IV). v + 928 pp. — Vol. 3 (Apps. V–VIII). iv + 961 pp. 1919, No. 185, vols. 13 and 13, Pts. 2 and 3.

Gives an account of steps taken to deal with labour questions during war (appointment of Committee on Production, Treasury Agreement, co-ordination of requirements of Government departments, &c.), wages movements, number of cases settled by arbitration, &c. Appendices contain copies of interim reports of Committee on Production; summaries of awards issued by Committee on Production, Special Arbitration Tribunals, Interim Court of Arbitration, Single Arbitrators and *ad hoc* Courts of Arbitration; particulars of work done by Joint District Boards under Coal Mines (Minimum Wage) Act; and particulars of collective agreements, rules of Voluntary Conciliation Boards, &c., containing clauses providing for reference of disputes to Ministry of Labour.

—— Conciliation and Arbitration, Report on. 1920, No. 221. iv + 462 pp.

Surveys industrial situation during 1919, extent of industrial unrest and steps taken to deal with it, and gives an account of proceedings under Coal Mines (Minimum Wage) Act, 1912, Wages (Temporary Regulation) Acts, 1918 and 1919, Restoration of Pre-War Practices Act, 1919, and Industrial Courts Act, 1919. Appendices contain an account of the Industrial Conferences, Feb. and Ap. 1919, and work of the Joint Provisional Committee, rules as to procedure of Interim Court of Arbitration and Industrial Court, summaries of awards during 1919 by these courts and by *ad hoc* Boards of Arbitration and single arbitrators, and of agreements negotiated by Ministry of Labour; summaries of agreements approved and statement of Statutory Rules and Orders issued and of important legal decisions given under Wages (Temporary Regulation) Acts; particulars of work done during 1919 by Joint District Boards under Coal Mines (Minimum Wage) Act.

—— Industrial Courts Act. Coal Tippers and Trimmers, hours of labour of, Report by Court of Inquiry on. H.M.S.O. 1920. 11 pp.

Examines claims of men employed in certain ports on two continuous shifts.

—— *Ibid.* Decisions of the Industrial Court.—Vol. 1 (Decisions, Dec. 12, 1919 to Mar. 31, 1920: Nos. 1–227). xxii + 432 pp.—Vol. 2 (Decisions, Ap. 1 to June 30, 1920: Nos. 228–369). xiv + 278 pp. — Vol. 3, Pt. 1 (Decisions, July 1 to Sep. 30, 1920: Nos. 370–491). viii + 254 pp.—Vol. 3, Pt. 2 (Decisions, Oct. 1 to Dec. 31, 1920: Nos. 492 to 588). viii + 202 pp. H.M.S.O.

—— *Ibid.* Electrical Trades Dispute, Penistone, Report of Court of Inquiry on. 1920, Cmd. 990. 4 pp.

Deals with dispute over the position of a foreman as regards trade union membership.

—— *Ibid.* Transport Workers, Report by a Court of Inquiry on. Vol. 1. Report and Minutes of Evidence. xxii + 500 pp. Vol. 2. Appendices, Documents, and Indexes. xx + 194 pp. 1920, Cmd. 936, 937.

Discusses questions of wages, registration of dock labour, &c. Evidence and Appendices contain much information as to wages, conditions of employment, system of engagement, &c., before war and subsequently.

—— Interim Court of Arbitration. Wages Temporary Regulation Acts, 1918 and 1919, and Conciliation Act, 1896. Vol. 1 (Awards, Nos. 1–500: Nov. 25, 1918 to May 31, 1919). xxv + 657 pp. — Vol. 2 (Awards, Nos. 501–932: June 5 to Nov. 21, 1919). xxvii + 574 pp. 1919. H.M.S.O.

—— *Labour Gazette.* (*Vide* BOARD OF TRADE, *supra.*)

—— *Weekly Report.* (*Vide supra*, p. 393.)

From Oct. 4, 1919 (No. 37) contains

a section on the work of the Wages and Arbitration Department (later Industrial Relations Department), giving particulars *re* awards, interpretations, agreements, &c. Also, from Jan. 24, 1920 (N.S. No. 1), a section on 'Negotiations and Disputes', giving particulars of disputes in the various trades other than those dealt with by Wages and Arbitration Department.

Ministry of Munitions. Clyde Munition Workers, Report of Lord Balfour of Burleigh and M. Lynden Macassey on. 1914–16, Cd. 8136, vol. 29. 5 pp.

An interim report (no further report published). Makes recommendations for allaying unrest, e.g. *re* clearance certificates, appeal from munitions tribunals, &c.

—— Labour Embargoes, Int. Report of Mr. Justice McCardie's Committee of Enquiry on. H.M.S.O. 1918. 12 pp.

Gives an account of the imposition of embargo on skilled labour at Coventry and reasons for it, and consequent stoppage of work at Coventry and Birmingham. (No further report published).

Ministry of Reconstruction. Relations between Employers and Employed, Committee on. Report on Conciliation and Arbitration. 1918, Cd. 9099, vol. 7. 5 pp.

Recommends extension of voluntary machinery for adjustment of disputes and establishment of standing Arbitration Council.

Ministry of Shipping. National Maritime Board. Engineer Officers' Panel: Decisions up to June 30, 1919, and Dec. 31, 1919, respectively. H.M.S.O. 8 pp., 9 pp. Navigating Officers' Panel: Decisions up to June 30, 1919. 6 pp. Sailors and Firemen's Panel: Decisions up to June 30, 1919. 5 pp.

Decisions as to rates of pay, hours and overtime, war risk bonus, &c.

—— National Maritime Board, Report on work of, 1917–19. 1920, Cmd. 545. 42 pp.

Gives an account of work of the Board from its establishment to its supersession by Joint Industrial Council (constitution, standardizing of rates of pay and conditions of employment, settlement of disputes, measures taken for supply of men and training, demobilization and resettlement, &c.). Appx. contains scale of minimum rates fixed for masters.

¶ *Books and Periodicals:*

Alden, Percy. 'Labour Unrest and the War,' in *C. R.*, Aug. 1915 (vol. 108), pp. 146–57.

Discusses increase of industrial disputes, formation and findings of Committee on Production, working of Munitions Act, &c.

Askwith, Lord. Industrial Problems and Disputes. John Murray. 1920. x + 494 pp.

Chaps. i–xxxiii contain account of pre-war disputes, &c. Chaps. xxxiv–xl (pp. 356 *et seq.*) deal with war and post-war periods. Author gives detailed account of the course of disputes during war and action taken by Government in dealing with them, work of Committee on Production, Munitions of War Acts, &c. Severely criticizes action of Ministry of Munitions and other departments for want of co-ordination, opportunist policy in dealing with labour claims, &c.

Cannan, Edwin. 'Industrial Unrest,' in *Econ. Jl.*, Dec. 1917 (vol. 27), pp. 453–70.

Reviews reports of Commission of Enquiry into Industrial Unrest.

Carter, G. R. 'The Coal Strike in South Wales,' in *Econ. Jl.*, Sep. 1915 (vol. 25), pp. 453–65. 'The Sequel of the Welsh Coal Strike and its Significance,' in *Ibid.*, Dec. 1915, pp. 521–31.

Gives an account of the strike, terms of settlement, &c., and discusses causes of unrest.

Chance, Sir Wm. Industrial Unrest: The Reports of the Commissioners (July 1917) collated and epitomized. P. S. King & Son. 29 pp.

Gives an epitome of the reports.

Cole, G. D. H., and **M. I.** The Regulation of Wages during and after the War. *Vide* LABOUR RESEARCH DEPARTMENT, *infra*.

Economist, May 19, 1917 (vol. 84), pp. 843–4. 'Industrial Unrest.'

Reviews causes of unrest, with special reference to relations between trade union leaders and employers.

—— Dec. 14, 1918 (vol. 87), pp. 800–1. 'The Strike in the Cotton Trade.'

A history of the wages question in the industry since beginning of war and an account of the chief features in present dispute.

Fayle, C. Ernest. 'Thoughts on the Present Discontent,' in *Q. R.*, July 1917 (vol. 228), pp. 201–27.

Discusses causes of labour unrest, reviews labour attitude since outbreak of war, criticizes policy of direct control of labour by Government, &c.

Greenwood, Arthur. 'Reconstruction and Industrial Peace,' in *Progress*, July 1916 (vol. 11), pp. 89–98.

Describes effect of war on industrial system and on status of trade unions, and discusses prospects of industrial peace and measures for maintaining it.

Henderson, Arthur. 'The Industrial Unrest: A New Policy Required,' in *C. R.*, Ap. 1919 (vol. 115), pp. 361–8.

Discusses causes of unrest during war and since Armistice and policy to be pursued.

Hopkins, Chas. P. 'National Service' of Merchant Seamen, 1914–19. (*Vide supra*, p. 358.)

Contains information as to growth of organization in merchant service during war, establishment and work of National Maritime Board, and negotiations for formation of Joint Industrial Council after Armistice.

House of Lords. Labour Unrest: The Debate in the House of Lords, Feb. and Mar. 1919. W. H. Smith & Son. 84 pp.

Reprint of speeches in condensed form.

Jones, J. H. 'Labour Unrest and the War,' in *P. Q.*, May 1915 (No. 6), pp. 86–118.

Discusses in some detail the Clyde Valley engineering dispute, exonerating A.S.E. from undue blame. Describes measures taken with regard to certain working difficulties in shipbuilding industry, e.g. dealing with 'broken squads', shortage of skilled labour, restriction of output. Discusses extension of agreement *re* demarcation of working grades and dilution, wages and output problems, &c.

Labour Research Department. Mem. No. 7. The Regulation of Wages during and after the War. By G. D. H. and M. I. Cole. Nov. 1918. 24 pp.

Describes methods of wage negotiation adopted during war and discusses their importance and possible effects on future method of adjusting wages. Surveys work of Committee on Production and other Government Departments concerned in work of settling wages.

Macassey, Lynden. 'Discontent in Industry,' in *Ed. R.*, Ap. 1920 (vol. 231), pp. 393–408.

Discusses causes of industrial unrest.

National Review, Nov. 1917 (vol. 70), pp. 323–38. 'The Industrial Unrest Commission,' by 'Engineer'.

Discusses Reports of the Commission, quoting their findings. Criticizes reports as incomplete and official summary as distorted and misleading. Criticizes Government attitude to trade unions.

—— Feb. 1918 (vol. 70), pp. 703–13. 'Strikes and the Stricken,' by 'Engineer'.

Discusses causes of strikes, main grounds being dilution and question of exemption from military service. Criticizes Government pro-trade union policy as responsible for strikes.

Quarterly Review, Ap. 1918

(vol. 229), pp. 541–58. 'The Grievances and Aims of Labour,' by 'A Skilled Labourer'.

Discusses aims of Labour, views on profiteering and food shortage, reasons for Labour's distrust of Government and its own leaders, influence of Syndicalism, &c., on mental attitude and activities of the workers, attitude towards war and influence of shop stewards, &c.

Round Table, Dec. 1916 (No. 25), pp. 67–90. 'Labour and Reconstruction.'

Discusses change in public opinion towards question of industrial unrest since beginning of war, the Labour point of view, Trade Union Congress of 1916, problem of reconciliation between employers and employed.

—— June 1917 (No. 26), pp. 555–61. 'The Labour Situation.'

Explains technicalities of the disputes *re* dilution in the case of commercial work and abrogation of trade-card system. Discusses attitude of Labour and criticizes Government action.

—— Sep. 1917 (No. 27), pp. 742–53. 'Industrial Unrest and the Whitley Report.'

Discusses reports of Commission of Enquiry.

—— Dec. 1917 (No. 29), pp. 147–54. 'The Labour Outlook,' and 'The Whitley Councils'.

Discusses Government reforms already instituted and further reforms needed. Notes difficulties in connexion with carrying out of Whitley Report.

Shadwell, Arthur. 'The Coming Revolution,' in *N. C.*, July 1917 (vol. 82), pp. 39–59.

Discusses the spirit of revolt against existing economic order, relations between employers and employed before war and effect of war on these relations, and future outlook.

—— The Problem of Dock Labour. Reprinted from *The Times*. Longmans, Green & Co. 1920. 30 pp.

Discusses report of Court of Inquiry into wages and conditions of employment of dock labour, probable effects of granting wages claims and reforms needed.

Stoker, Wm. H. The Industrial Courts Act, 1919 and Conciliation and Arbitration in Industrial Disputes. Stevens & Sons. 1920. viii + 56 pp.

Presents in a concise form, with some comments and criticism, the Act of 1919, the Wages (Temporary Regulation) Act, 1918, &c., with a short sketch of the various steps in conciliation and arbitration during war.

7. INDUSTRIAL COUNCILS AND WORKS COMMITTEES[1]

a. GENERAL

¶ *Official Publications:*

Home Office. Factories and Workshops, Report of Chief Inspector of, for 1919. 1920, Cmd. 941. (*Vide supra*, p. 407.)

Chap. xiii (pp. 108–11), 'Joint Industrial Councils and Trade Boards', by Gerald Bellhouse. Gives brief account of work of some of the Industrial Councils.

Ministry of Labour. Directory of Industrial and other Associations, 1919. 1919, Cmd. 328. (*Vide supra*, p. 365.)

Contains lists of Joint Standing Industrial Councils and Interim Reconstruction Committees.

—— Industrial Councils and Trade Boards, Memorandum on. *Vide* MINISTRY OF RECONSTRUCTION and MINISTRY OF LABOUR, *infra*.

——Industrial Reports.—No. 1.

[1] For further references *vide* 'Bibliography of Industrial Councils', compiled by Mrs. Watts, in *Bulletin of the British Library of Political Science*, Feb. 1921, pp. 19–24.

Ministry of Labour (*cont.*)

Industrial Councils. 1919. 16 pp. — No. 2. Works Committees. 1918. ii + 146 pp. — No. 3. Industrial Councils and Trade Boards. 1918. 16 pp. — No. 4. Industrial Councils: Suggestions as to the Constitution and Functions of a National Joint Industrial Council, &c. 1919. 21 pp. (Revised ed., 1920). H.M.S.O.

No. 1 contains reprint of Whitley Report (Cd. 8606, *infra*), with letter from Ministry of Labour to employers' associations and trade unions, explaining some points as to constitution, &c., of the Councils and reasons for their establishment. No. 2 describes, as result of an inquiry made by Ministry of Labour, the extent of existence of works committees before war, causes of growth during war, constitution and procedure, functions and relations with trade unions. Apps. include reports of works committees in several firms and joint time-keeping committees in collieries and iron works. No. 3 is reprint of Cd. 9085 and 9002 (*infra*). No. 4 makes suggestions as to constitution, functions, &c., of National and District Councils and Works Committees. Gives list of industries in which Joint Industrial Councils have been established up to Dec. 31, 1918 (in revised ed., Dec. 31, 1919), with examples of their constitution, &c.

—— Joint Standing Industrial Councils. *Monthly Bulletin*. No. 1, July 1919. 10 pp. No. 2, Dec. 1919. 20 pp. No. 3, Sep. 1920. 19 pp.

Gives particulars as to progress made in establishment of Industrial Councils, District Councils and Works Committees, and work undertaken by them.

—— *The Month's Work*. (*Vide supra*, p. 365.)

Contains, *passim*, information as to formation and work of Industrial Councils.

—— *Weekly Report*. (*Vide supra*, p. 393.)

From Oct. 4, 1919 (No. 37) contains a section on the progress in formation of Joint Industrial Councils, Joint Industrial Reconstruction Committees and Trade Boards, and their work.

Ministry of Reconstruction. Reconstruction Problems. No. 18. Industrial Councils: The Whitley Scheme. H.M.S.O. 1919. 14 pp.

Describes constitution and functions of Industrial Councils, District Councils and Works Committees, gives list of Councils already formed and instances of work done, and list of Interim Industrial Reconstruction Committees formed.

—— Relations between Employers and Employed, Committee on. Int. and 2nd Reports on Joint Standing Industrial Councils. 1917–18, Cd. 8606, vol. 18. 8 pp. 1918, Cd. 9002, vol. 10. 7 pp. Supplementary [3rd] Report on Works Committees. 1918, Cd. 9001, vol. 14. 4 pp. Final Report. 1918, Cd. 9153, vol. 8. 4 pp.

Interim Report (the 'Whitley Report') deals with well-organized trades; recommends formation of Joint Standing Industrial Councils, &c., and outlines questions to be dealt with. 2nd Report deals with unorganized and partially organized trades; recommends formation of Industrial Councils or Trade Boards according to degree of organization. 3rd report recommends formation of Works Committees in general terms. Final report summarizes the four reports. (For 4th report *vide supra*, p. 429.)

—— and **Ministry of Labour.** Industrial Councils and Trade Boards, Memorandum on. 1918, Cd. 9085, vol. 22. 4 pp.

Sets out the modifications in 2nd report on Joint Standing Industrial Councils (Cd. 9002, *supra*) which it has been found necessary to make. Describes difference between Industrial Councils and Trade Boards.

¶ *Books and Periodicals:*

Addison, Christopher. Address delivered at Newcastle, Jan. 25, 1918, in *Trans. N.-E. Coast Inst. Engineers and Shipbuilders*, 1917–18 (vol. 34), pp. 133–50.

Urges formation of Joint Industrial

Councils, describing reasons for which they are needed. Alludes to difficulty experienced by Government during war owing to absence of representative trade organizations whom they could consult.

Athenaeum. The Politics of Industry: An Examination of the Whitley Report. Reprinted from *Athenaeum*. Athenaeum Literature Department. 1917. 15 pp.

Barker, Ernest. 'Industrial Councils and IndustrialHarmony,' in *Jl. Textile Inst.*, Dec. 1917 (vol. 8), pp. 161–8 (with discussion).

Discusses reception of Whitley Report in the cotton industry, changes involved in application of the scheme to the industry and functions to be undertaken.

Benn, Ernest J. P. The Trade of To-morrow. Jarrolds. 1917. 232 pp.

Urges establishment of Ministry of Commerce and Industry and of Trade Councils representative of Labour, employers and State, and discusses work to be undertaken by these Councils. Discusses growing demand for organization and schemes put forward. Reviews existing position as regards association among employers and pronounces it a failure.

—— Trade Parliaments and their Work. Nisbet & Co. 1918. 91 pp.

Discusses questions to be dealt with by Joint Industrial Councils, interest of Labour as well as employers in these questions, changed attitude during war towards trade and industry.

—— 'The Higher Direction of Industry,' in *C. R.*, June 1918 (vol. 113), pp. 671–9.

Discusses functions which should be undertaken by Industrial Councils.

Cassier's Engineering Monthly. (*Vide supra*, p. 241.)

Contains, *passim*, from Aug. 1918, articles on works committees.

Fabian Research Department. *Vide* LABOUR RESEARCH DEPARTMENT, *infra*.

Foster, Thos. Masters and Men: a New Co-partnership. Headley Bros. 10 pp.

Outlines scheme for organization and working of a Joint Council for the Building Industry. Describes formation and work of National Painters and Decorators Joint Council.

Garton Foundation. The Industrial Council for the Building Industry: The Story of a Revolution in Industrial Development. Harrison & Sons. 1919. 153 pp.

Describes steps leading to formation of the Industrial Council, its constitution and programme, structure of the industry, and a year's working of the Council and its Committees. Gives text of the Foster Report on organized public service in the building industry.

Harris, H. Wilson. 'The Whitley Scheme at Work,' in *C. R.*, Dec. 1917 (vol. 112), pp. 645–7.

Discusses the National Painters' and Decorators' Joint Council, its origin and working, &c.

Hopkins, Chas. P. 'National Service' of Merchant Seamen, 1914–19.

Vide supra, p. 431.

Johnston, T. B. 'Industrial Councils and their Possibilities.' *Vide* MANCHESTER, UNIVERSITY OF, *infra*.

Labour Research Department. The Whitley Reports and their Application. By Margaret I. Postgate. Fabian Research Dept., Mem. No. 6. Aug. 1918. 13 pp. (typescript).

Discusses the reports, their reception by employers and workers, attitude of Government with regard to its own employees, and extent to which reports have been applied in different industries.

—— *Monthly Circular.* (*Vide supra*, p. 369.)

Contains monthly notes on progress of movement for establishment of Industrial Councils.

Labour Year Book, 1919. (*Vide supra*, pp. 369–70.)

Pp. 245–56, 'Industrial Relations after the War'. Gives an account of the schemes for dealing with industrial relations proposed by Employers' Associations and by Trades Union Congress, the Whitley Report (its provisions and attitude of employers and Labour towards it) and application of the Report.

Leverhulme, Lord. The Six-Hour Day. With Introduction by Viscount Haldane of Cloan. Geo. Allen & Unwin. 1918. xv + 331 pp.

Sec. III, Chap. iv (pp. 183–95), 'Standardizing Welfare'. Describes the system of works committees in force at the author's works.

Manchester, University of. Industrial Administration. (*Vide supra*, p. 422.)

Pp. 135–59, 'Industrial Councils and their Possibilities', by T. B. Johnston. Describes conference at Shipham between employers and Labour, and steps leading up to establishment of National Council for the pottery industry, its constitution and objects. Discusses lines of future development of Industrial Councils.

Murphy, J. T. Compromise or Independence: An Examination of the Whitley Report. Sheffield Workers' Committee. 12 pp.

Criticizes Whitley Report and argues against acceptance of proposals for Joint Industrial Councils.

National Guilds League. National Guilds or Whitley Councils? Being a reprint, with a new introduction, of two pamphlets on the Whitley Report. 1918. 20 pp.

Criticizes principles underlying proposals for Joint Industrial Councils and describes attitude of trade unions.

Pearson, J. R. 'What the Whitley Councils are doing for Industry,' in *System*, Ap. 1920 (vol. 37), pp. 245–6.

Reviews work done by, and present efforts of, National Councils in specific industries.

Postgate, Margaret I. The Whitley Reports and their Application. *Vide* LABOUR RESEARCH DEPARTMENT, *supra*.

Renold, C. G. Workshop Committees: Suggested Lines of Development. Hans Renold, Ltd., Manchester. 1917. 34 pp.

Discusses in some detail the functions which workshop committees could undertake and the necessary organization.

Sparkes, Malcolm. A Memorandum on Industrial Self-Government: With a draft scheme for a Builders' National Industrial Parliament. Harrison & Sons. 1917. 28 pp.

Describes action taken by author in suggesting formation of a Builders' National Industrial Parliament, the functions proposed, reception of scheme by Labour, and scheme drawn up for submittal to employers.

Vane, Torre. 'What Trade Parliaments are doing for Industry,' in *System*, May 1919 (vol. 35), pp. 331–5.

Discusses work accomplished by Industrial Councils in various trades from the standpoint of the benefit to industry.

Whitley, J. H. Address on the Whitley Report, at meeting of Textile Institute, Feb. 18, 1918, in *Jl. Textile Inst.*, May 1918 (vol. 9), pp. 36–9.

Discusses need for Industrial Councils, and explains scheme proposed, functions to be undertaken, &c.

—— Works Committees and Industrial Councils: Their Beginnings and Possibilities. University Press, Manchester. Longmans, Green & Co. 1920. 25 pp.

A lecture given at College of Technology, Manchester, Oct. 1919 (with discussion). Discusses possibilities, progress made, practical points in formation of Industrial Councils, &c.

b. IN GOVERNMENT ESTABLISHMENTS

℄ *Official Publications :*

Civil Service National Whitley Council. Int. Report, Feb. 17, 1920. 12 pp. Final Report, Jan. 28, 1921. 13 pp. H.M.S.O.

Interim Report makes recommendations with regard to organization of Civil Service and salaries, hours, recruiting, &c., of the different classes. Final Report deals with steps taken to carry out Interim Report.

—— Temporary Staffs, Report of Sub-Committee on, Feb. 24, 1920. H.M.S.O. 3 pp.

Makes recommendations with regard to periods of notice on discharge, establishment of temporary staffs and training.

Committees. Civil Service, Joint Committee on Organization, &c., of. *Vide* CIVIL SERVICE NATIONAL WHITLEY COUNCIL, *supra.*

—— Whitley Report, application of, to Government Establishments, Inter-departmental Committee on. Report of Sub-Committee on application of Whitley Report to administrative departments of Civil Service. 1919, Cmd. 9. 10 pp.

Formulates general principles and outlines main features of organization to be set up.

—— Whitley Report, application of, to administrative departments of Civil Service, Report of National Provisional Joint Committee on. 1919, Cmd. 198. 8 pp.

Sets out scheme for constitution of a National Council and outlines principles for organization of departmental councils and district committees.

Ministry of Labour. *The Month's Work*, Mar. 1920, pp. 166–7. 'J.I.C.'s. Civil Service National Council.'—*Ibid.*, Ap. 1920, p. 197. 'J.I.C.'s. Government Industrial Establishments.'

Describe steps taken and progress made with regard to establishment of Civil Service National Council and application of Whitley scheme to Government industrial establishments.

War Office. War Office Civil Service Whitley Council, Staff side. 1st Report, Jan. 1920. 16 pp. 2nd Report, Ap. 1920. 18 pp. 3rd Report, Sep. 1920. 15 pp. Harrison & Sons.

Contain accounts of steps leading to formation of the Council, its composition, procedure and work, &c.

8. TRADE UNIONS AND FRIENDLY SOCIETIES[1]

℄ *Acts of Parliament :*

Constabulary and Police (Ireland) Act, 1919. Police Act, 1919. (*Vide supra*, pp. 66, 67.)

Provide for establishment of representative police bodies and prohibit police from joining trade unions.

Munitions of War Acts, 1915 and 1916. (*Vide supra*, p. 393.)

Sec. 4, ss. (3) and (4), and Schedule II of 1915 Act and Sec. 15 of 1916 Act deal with suspension of trade union practices.

Restoration of Pre-War Practices Act, 1919. 9 & 10 Geo. V. c. 42. 3 pp.

Trade Union (Amalgamation) Act, 1917. 7 & 8 Geo. V. c. 24. 1 p.

℄ *Official Publications :*

Board of Trade [later **Ministry of Labour**]. *Labour Gazette.* (*Vide supra*, p. 365.)

[1] *Vide* also LABOUR : GENERAL, § A, 1, *supra*, pp. 365–74. For relaxation of trade union customs, *vide* also LABOUR : MUNITIONS, § A, 3, *supra*, pp. 393–8.

Contains annual article (Sep. 1915, vol. 23, pp. 318–9; June, 1917, vol. 25, p. 201; May 1918, vol. 26. pp. 175–6; Dec. 1918, p. 485; Jan. and Feb. 1920, vol. 28, pp. 7–8, 60; Dec. 1920, pp. 667–8, 705) on 'Membership of Trade Unions in [1914, &c.]'. Gives total membership of trade unions known to Board of Trade in different industries at end of each year, including figures as to number of women members.

Ministry of Labour. Conciliation and Arbitration, Report on. 1920, No. 221. (*Vide supra*, p. 427.)

Pp. 23–5. Describes origin and scope of Restoration of Pre-war Practices Act and working of the Act (number of cases in which proceedings instituted for non-restoration and causes of dispute).

—— *Labour Gazette.* *Vide* BOARD OF TRADE, *supra*.

Registry of Friendly Societies. Annual Reports of Chief Registrar:—

Report for 1914. Pt. A. General Report. Pt. A, Appx. A. Valuation Returns. Pt. B. Industrial and Provident Societies. Pt. C. Trade Unions. Pt. D. Building Societies. 1914–16, Nos. 139 to 139–IV, vol. 59.

Report for 1915. Pts. A, and Appx. A. 1916, Nos. 30 and 30–I, vol. 24. Pts. B, C, D. H.M.S.O.

Report for 1916. Pts. A, and Appx. A. 1917–18, Nos. 101 and 101–I, vol. 27. Pts. B, C, D. H.M.S.O. 1918.

Report for 1917. Pts. A, and Appx. A. 1918, Nos. 119 and 119–I, vol. 10. Pts. B, C, D. H.M.S.O. 1920, 1920, and 1919.

Report for 1918. Pt. A. 1919, No. 189. Pt. A, Appx. C. H.M.S.O. 1920. Pt. D. H.M.S.O. 1920.

Report for 1919. Pt. A. 1920, No. 128.

General Reports (Pts. A) contain particulars and statistics *re* Friendly Societies (number of societies, membership, expenditure, &c.), Workmen's Compensation schemes, &c. Pts. B., particulars *re* co-operative societies (membership, sales, &c.), showing expansion during war. Pts. C., particulars *re* trade unions (number added to or removed from register during the year, membership, income, expenditure, funds, &c.); allusion made to increase in female membership but figures not given.

¶ *Books and Periodicals:*

Arnot, R. Page. *Vide* COLE, G. D. H. and ARNOT, R. PAGE, *infra*.

Carter, G. R. 'The Triple Alliance of Labour,' in *Econ. Jl.*, Sep. 1916 (vol. 26), pp. 380–95.

Describes formation of Alliance, membership, policy, &c.

Cole, G. D. H. An Introduction to Trade Unionism. Fabian Research Dept. and Geo. Allen & Unwin. 1918. vi + 128 pp.

Describes structure of trade unionism, its growth during war, its distribution over various industries and areas, &c.; discusses problems and developments during war, relations of trade unionism to the State, to co-operation, &c., and future prospects.

—— The Payment of Wages. (*Vide supra*, p. 404.)

Chap. xi (pp. 93–101), 'Workshop Committees and Workshop Bargaining.' Discusses development of workshop organization in connexion with problems of wage-payment. Discusses present position as regards shop stewards and their relation to trade union organization.

—— Self Government in Industry. G. Bell & Sons. 3rd ed. 1918. xi + 329 pp. 5th ed. 1920. x + 283 pp.

Discusses application of principles of self-government to the industrial system, dealing mainly with system of national guilds. Discusses restoration of trade union conditions (this chapter omitted after 3rd ed.), and changes required for re-organization of trade unionism. Describes occurrences of splits in trade union ranks during war and necessity for co-ordination of labour forces. Examines

position of guildsmen towards nationalization and probable effects of nationalization on guild control.

—— Chaos and Order in Industry. Methuen & Co. 1920. viii + 292 pp.

Discusses causes of strikes with reference to industrial conditions brought about by war. Traces development of Guild idea during war, examining the position in various industries with regard to the question of democratic control and the organization created for the purpose (e. g. shop stewards movement in engineering and shipbuilding industries). Discusses value of the Whitley Report.

—— and **Arnot, R. Page.** Trade Unionism on the Railways. Trade Union Series, No. 2. Fabian Research Dept. and Geo. Allen & Unwin. 1917. 147 pp.

Chaps. ix to xx (pp. 49–108) deal with war period. Give an account of negotiations *re* conciliation schemes, wage demands (in England and Ireland), employment of women, military service of railwaymen, formation of Triple Alliance, disputes between Nat. Union of Railwaymen and craft unions, relations with other transport unions, the Railway Clerks' Association (classes eligible, relation to N. U. R., programme, &c.), demand for control of industry. Appendices contain draft conciliation schemes of 1916 and 1917.

Committee, Joint, on Labour Problems after the War. The Munitions Acts and the Restoration of Trade Union Customs. Nov. 1916. Labour Party. 11 pp.

Discusses amendments necessary in order to remove ambiguities in existing position and to bring Munitions Acts into harmony with intentions of those who accepted them on behalf of Labour.

—— The Restoration of Trade Union Customs after the War: A Statement and Analysis of the Government Guarantees. Labour Party. 1917. 14 pp.

Gives an account of the pledges given, showing how far they are legally and how far only morally enforceable, and quotes statements made by responsible members of the Government on the question.

—— The Restoration of Trade Union Conditions in cases not covered by the Munitions Acts. Labour Party. 1917. 9 pp.

Gives an account of the position as regards departure from trade union customs in uncontrolled trades and discusses methods of enforcing restoration after war.

Furniss, H. Sanderson (Ed.). The Industrial Outlook. (*Vide supra*, p. 367.)

Chap. iv. (pp. 125–69), 'Labour Organization,' by J. R. Taylor. Reviews main features of trade unionism before war, discusses position during war (industrial truce, abandonment of trade union restrictions, &c.), effect of war on strength of the unions and future prospects. Attitude sympathetic to trade unions. Contains bibliographical note.

Garton Foundation. Tracts for the Times. I. The Pledge to the Trade Unions. Issued for private circulation only. 1919. 8 pp.

Describes position as regards the pledges and urges necessity for definition by Government of methods of restoration or substitution. Gives principal pledges and statements of Ministers with regard to them.

—— *Ibid.* Postscript No. 1. A Digest of Comments received upon Tracts for the Times, No. 1. (?) 1919. 8 pp.

Irish Labour Party and Trade Union Congress. Annual Reports, 1916, &c. Dublin.

Contain discussions on labour questions, and reports of National Executive on events of the past year.

Labour Research Department. *Monthly Circular.* (*Vide supra*, p. 369.)

Contains monthly trade union notes (wages, strikes, amalgamations, &c.).

Labour Year Books, 1916 and 1919. (*Vide supra*, pp. 369–70.)

Contain articles on trade unionism,

Triple Industrial Alliance, statistics of trade union membership and finance, directory, &c.

National Review, Aug. 1917 (vol. 69), pp. 716–27. 'Government and Labour', by 'Engineer'.

Discusses suggested amendments to Munitions Act and Int. Report of Sub-Committee on Relations between Capital and Labour. Criticizes both as giving undue power to trade unions. Argues that restoration of trade union customs is impossible.

—— Jan. 1918 (vol. 70), pp. 602–17. 'Trade Unions,' by 'Engineer'.

Discusses and criticizes constitution and operations of trade unions. Asserts that trade union restrictions have not been abandoned, quoting instances.

Richardson, H. M. 'National Guilds: The New Trade Unionism,' in *Annual of Co-operative Wholesale Societies,* 1918, pp. 283–8.

Discusses growth of National Guildism during war (demand of workers for control).

Scottish Trades Union Congress. Annual Reports, 1916, &c. Glasgow.

Contain discussions on Labour questions, education, housing, &c., and reports of Parliamentary Committee on action taken since last Congress.

Taylor, J. R. 'Labour Organization.' *Vide* FURNISS, H. SANDERSON, *supra.*

Thomas, J. H. 'Trade Unionism,' in *Glasgow Herald, Shipbuilding, Engineering and Commerce Supplement,* Dec. 28, 1918, p. 37.

Discusses national importance of future of trade unionism by reference to its growth under war conditions and its recognition by Government and employers. Criticizes certain aspects and activities during war. Discusses adoption of Whitley Report.

Trades Union Congress. Annual Reports, 1915, &c. Published by authority of the Congress and the Parliamentary Committee, 32 Eccleston Square.

Contain resolutions and discussions with regard to labour questions, e. g. attitude of Labour towards war, conscription, progress of trade unionism, wages, hours, employment of women, relations between trade unions and co-operative movement, inter-union disputes, Old Age Pensions, war pensions, demobilization, &c. Contain reports of Parliamentary Committee on events and action taken since last Congress.

—— Parliamentary Committee. Quarterly Reports (19th to 33rd), Dec. 1914 to June 1919. (After this date replaced by *British Trades Union Review, vide infra,* p. 449.)

Contain information *re* trade union activities, legal cases affecting Labour, inter-union disputes, deputations to Government *re* Congress resolutions, relations of trade unions to co-operative movement, &c.

Webb, Sidney. The Restoration of Trade Union Conditions. Nisbet & Co. 1917. 109 pp.

Describes extent of trade union rules and agreements before war, extent to which they have been given up, pledges made for restoration, and practical difficulties in way of restoration. Draws up scheme for a new settlement. Contains bibliography.

—— and **Beatrice.** The History of Trade Unionism. Revised ed., extended to 1920. Longmans, Green & Co. 1920. xviii +784 pp.

Chaps. ix to xi (pp. 472–718) deal with history of the period 1890–1920. A description is given of the growth of trade unions, inter-union relations, position of Trades Councils, Trades Union Congress, &c., changes in legal and in social and political status of trade unions, revolution in thought, increased reliance on direct action, political organization, &c.

¶ *Trade Union Journals :* [1]

(1) *General.*

British Trades Union Review. Monthly. 32 Eccleston Sq. 1st issue, Aug. 1919.

Monthly Circular of the Parliamentary Committee of Trades Union Congress.

The Federationist. Hamilton House, Bidborough St. Monthly. ½*d.*

Organ of Gen. Fed. of Trade Unions.

(2) *Special.*

A.U.C.E. Journal. *Vide* Co-operative Employee, *infra.*

Amal. Engineers Monthly Journal and Report. Contd. from Aug. 1920 as *Amal. Engineering Union Monthly Journal.* 110 Peckham Rd. Monthly. 1*d.*

Organ of A.S.E.

Amal. Soc. of Tailors, Journal of. 415 Oxford Rd., Manchester. Quarterly. 1*d.*

Amalgamated Toolmakers' Journal. 42 and 44 Islington Row, Birmingham. Monthly.

Boot and Shoe Operatives, National Union of. Monthly Report. 34 Guildford St. 1*d.*

British Seafarer. Unity Chambers, Latimer St., Southampton. Monthly.

Organ of British Seafarers' Union.

Carpenters and Joiners, Amalgamated Society of. Monthly Journal. Wilmslow Rd., Withington, Manchester. Monthly. 1*d.*

The Clerk. 1 Brunswick Sq. Monthly. 2*d.*

Organ of Nat. Union of Clerks.

Co-operative Employee. Contd. from July 1917 as *A.U.C.E. Journal.* 22 Long Millgate, Manchester. Monthly. 1*d.*

Cotton Factory Times.

Vide supra, p. 284.

H.M. Customs and Excise, Journal of. 46 Chancery Lane. Fortnightly. From July 10, 1920, weekly. 2*d.*

Organ of Customs and Excise Federation.

Dockers' Record. Effingham House, Arundel Street, Strand. Monthly.

Organ of Dock, Wharf, Riverside, and General Workers' Union of Great Britain and Ireland.

Electrical Trades Journal. 137 Gt. Clowes St., Broughton, Manchester. Monthly. 1*d.*

Organ of Electrical Trades Union.

Irish Railway Review. *Vide* NEW WAY, *infra.*

Iron and Steel Trades Confederation, Journal of. 76–8 Swinton St., Grays Inn Rd. Monthly (from April 1917).

Ironfounders Journal. 164 Chorlton Road, Brooks' Bar, Manchester. Monthly.

Organ of Friendly Society of Ironfounders.

Journalist. *Vide* NATIONAL UNION JOURNAL, *infra.*

Journeymen Bakers' Magazine. Union House, 57 Sydney St., Chelsea. Monthly. 1*d.*

Organ of Amal. Union of Operative Bakers, Confectioners and Allied Workers of Great Britain and Ireland.

Licensed Vehicles Trades Record. 39 Gerrard St. Fortnightly. 2*d.*

[1] An extensive collection of trade union reports and journals is to be found at the Labour Research Department (*vide* footnote, p. 369, *supra*).

Organ of London and Provincial Union of Licensed Vehicle Workers.

Locomotive Journal. 8 Park Sq., Leeds. Monthly. 3*d.*

Organ of Assoc. Society of Locomotive Engineers and Firemen.

London Typographical Journal. 7–9 Bride St. Monthly. 2*d.*

Marine Caterer. 41 John St., Liverpool. Monthly. 1*d.*

Organ of Nat. Union of Ships' Stewards, Cooks, Butchers and Bakers.

Marine Engineers' Association, Journal of. 15 East India Dock Rd. Monthly.

N.A.-W.U. Magazine. 27 Corporation St., Manchester. Monthly. 2*d.*

Organ of Nat. Asylum-Workers' Union.

National Union Journal. Contd. in 1917 as *The Journalist.* 180 Fleet St. Monthly. 3*d.*

Organ of Nat. Union of Journalists.

New Way. Founded Mar. 1917. Contd. as *Irish Railway Review.* 28 South Frederick St., Dublin. Monthly. 2*d.*

Organ of Railway Workers and Railway Users in Ireland.

Operative Stone Masons' Society, Journal of. 6 Dover St., Chorlton-on-Medlock, Manchester. Fortnightly. 1*d.*

Post. 2 Mount St., Manchester. Fortnightly (from Jan. 1920 weekly). 1*d.*

Organ of Fawcett Assoc. (now organ of Union of Post Office Workers).

Postal and Telegraph Record. Lawrence Buildings, Mount St., Manchester. Weekly. 1*d.*

Official organ of Postal and Telegraph Clerks' Association.

Postman's Gazette. 240 Edgware Rd. Fortnightly. 1*d.*

Organ of Postmen's Federation.

Railway Clerk. 1*d.* Contd. from Feb. 15, 1919, as *Railway Service Journal.* 25 Euston Rd. Monthly. 2*d.*

Organ of Railway Clerks' Assoc. (now organ of Railway Clerical, Administrative and Supervisory Staff).

Railway Review. 312 Grays Inn Rd. Weekly. 1*d.*

Organ of Nat. Union of Railwaymen.

Railway Service Journal. *Vide* RAILWAY CLERK, *supra.*

Scottish Typographical Journal. 2 Waverley Gardens, Crossmyloof, Glasgow. Monthly. 1½*d.*

The Seaman. Maritime Hall, W. India Dock Road. Fortnightly. 1*d.*

Organ of Nat. Sailors' and Firemen's Union.

Settmakers' and Stoneworkers' Journal. 1 Union St., Leicester. Monthly. 2*d.*

Organ of Amal. Nat. Union of Quarry workers and Settmakers.

Shop Assistant. 24 Bedford St. Weekly. 2*d.*

Organ of Nat. Amal. Union of Shop Assistants, Warehousemen and Clerks.

Trade Union Worker. 32 Charing Cross. Monthly. 1*d.*

Organ of the Workers' Union.

Typographical Circular. Beechwood, Oak Drive, Fallowfield, Manchester. Monthly. 1*d.*

Organ of Typographical Association.

United Operative Masons' and Granite Workers' Journal. 47 Belmont St., Aberdeen. Monthly. 1*d.*

9. CO-OPERATION [1]

¶ *Official Publications :*

Board of Trade (later **Ministry of Labour**). *Labour Gazette*, Sep. 1915 (vol. 23), pp. 316–18 ; Ap. 1917 (vol. 25), pp. 133–4 ; Aug. 1918 (vol. 26), pp. 304–5 ; Nov. 1919 (vol. 27), pp. 465–6 ; Nov. 1920 (vol. 28), pp. 598–9. 'Industrial Co-operative Societies in U.K. in 1914 [1915, 1916, 1917, 1918].'

Give particulars of distributive and productive societies (number, membership, sales, number of employees, &c.).

Ministry of Labour. Profit-sharing and Labour Co-partnership in U.K., Report on. With bibliography and index. 1920, Cmd. 544. 244 pp.

Gives an account of profit-sharing, &c., in business and co-operative societies, history of the movement, number of schemes, causes of abandonment of schemes, financial results, &c. Figures given up to 1918. Discusses briefly effect of war (on bonuses, introduction of new schemes, &c.).

Registry of Friendly Societies. Annual Reports of Chief Registrar. Parts B.

Vide supra, pp. 443–4.

¶ *Books and Periodicals :*

Co-operative Union. Reports of Annual Co-operative Congress, 1915, &c. Co-op. Union, Manchester.

Contain much information as to progress and policy of the co-operative movement (including agricultural co-operation) in the U. K., e. g. relations with employees, relation between agricultural co-operation and distributive societies, attitude with regard to Excess Profits Duty, Government's food policy and action of military tribunals, political action, &c. Detailed statistics of distributive and productive societies (membership, number of employees, salaries and wages, sales, profits, &c.) and of farming societies. Lists of societies registered, dissolved, &c., during year.

—— Report of Co-operative National Emergency Conference, held in Central Hall, Westminster, Oct. 17 and 18, 1917. 144 pp.

Gives full report of resolutions and speeches at the Conference. Deals with grievances of co-operators (unfair treatment by Government as regards food control, action of military tribunals and levying of Excess Profits Duty), objects to be furthered by United Advisory Council of trade unionists and co-operators and political programme of co-operative movement. Appx. contains report of deputation to Prime Minister *re* grievances, October 31, 1917.

—— Reports of Co-operative Survey Committee. 1st Int. Report, in *Report of Co-op. Congress*, 1916, pp. 150–63, 230–344. 2nd Int. Report, in *Report of Congress*, 1917, pp. 170–227. 3rd Int. and 4th (Final) Reports, 1919. iv + 322 pp. (3rd Report is printed in *Report of Congress*, 1918, pp. 183–99.)

A useful survey of the position of the co-operative movement and measures to be taken for its development. Discusses constitution and methods of administration of Co-operative Union ; constitution and work of the Wholesale Societies, Co-operative Productive Federation and International Co-operative Alliance ; activities of retail distributive and productive societies and methods to be adopted for increasing membership and trade, &c. ; development of agricultural co-operation, its relation to industrial movement and problems to be faced ; labour questions ; possible developments with regard to international trade, &c. Statistics of membership, capital, trade, number and wages of employees, &c. 2nd Report deals with education, co-operative literature and propaganda.

[1] *Vide* also AGRICULTURAL CO-OPERATION, § III, B, 3, *supra*, pp. 167–70.

Co-operative Wholesale Societies, Annual of, for 1916, 1917, 1918. C.W.S., Manchester, and S.C.W.S., Glasgow. (*Vide* also PEOPLE'S YEAR BOOK, *infra.*)

Contain descriptions of premises of the Wholesale Societies and statistics (shares, membership, capital, sales, profits, number of employees, &c., and trading accounts of the different departments), summaries of returns of co-operative societies, articles on co-operative movement, &c.

Co-operators' Year Book for 1916, &c. Co-op. Productive Federation, Ltd. Co-partnership Publishers.

Contains statistics of co-partnership productive societies and articles on co-operative movement.

Fay, C. R. Co-operation at Home and Abroad: A Description and an Analysis. 2nd ed. With a supplement on the progress of co-operation in U.K. (1908–18). P. S. King & Son. 1920. xvi + 447 pp.

Gives detailed account of co-operation at home and abroad before war (1st ed. 1908), with full bibliography. Supplement (pp. 391–435) contains an account of progress, 1908–1918, of agricultural co-operation, co-partnership, co-operative stores, Women's Co-operative Guild, relations between industrial and agricultural co-operation, political developments, &c., with bibliography.

Gordon, Lionel Smith-, and **O'Brien, C.** Co-operation in Many Lands. Vol. 1. Co-op. Union, Manchester. 1919. 272 pp.

Deals with co-operation in U.K. and abroad. Gives an account of different types of co-operation, theories of relation between producers and consumers, history and structural organization, co-operative finance, economic, political and educational policy, &c. Occasional reference to war conditions. Useful bibliography.

Greening, Edward Owen. A Policy of Conciliation for Co-operators: How to reconcile the interests and ideals and work of Agricultural, Productive and Distributive Societies. Palmer, Sutton & Co. (Printers). 1916. 7 pp.

Refers to conflict between productive and distributive societies and between Farmers Trading Board and C.W.S. Agricultural Department, and pleads for liberal-minded policy.

Hall, F. The Co-operative Control of Raw Materials and Prices. Co-op. Union, Manchester. 1916. 24 pp.

Discusses importance of securing control of supplies of raw materials and methods of increasing membership and trade.

Labour Co-partnership Association. Annual Reports. 6 Bloomsbury Sq.

Short reports, giving accounts of progress of co-operative productive societies and co-partnership. Statistics of Gas Companies which have adopted co-partnership and profit-sharing (capital, number of employees and amount divided, &c.).

Labour Research Department. *Monthly Circular.* (*Vide supra,* p. 369.)

Contains monthly notes on development of co-operative movement.

Labour Year Book, 1916 (pp. 383–401) and 1919 (pp. 329–35). 'The Co-operative Movement.'

Gives account of progress of the movement, political programme, statistics of Amalgamated Union of Co-operative Employees (membership, income and funds), &c.

Lucas, James. Co-operation in Scotland. International Co-operative Series, No. 2. Co-op. Union, Manchester. 1920. 93 pp.

Gives historical account of development of co-operation in Scotland (mainly pre-war), statistics of progress of Scottish Co-operative Wholesale Society and of co-operative membership and trade in the various counties.

Mercer, T. W. The Proposed National Co-operative Society. Co-op. Union, Manchester. 1920. 16 pp.

Discusses proposal for consolidation and steps to be taken. Gives statistics of amalgamation of co-operative societies.

—— The Co-operative Movement in Politics : A Statement of the case for and against the proposed Labour and Co-operative Political Alliance. Co-op. Union, Manchester. 1920. 15 pp.

Arguments for and against proposed alliance and proposed affiliation of Co-operative Party to Labour Party. Describes course of events leading to entry of co-operative movement into politics and steps taken.

O'Brien, C. *Vide* GORDON, L. SMITH- and O'BRIEN, C., *supra*.

People's Year Book for 1918. Contd. from 1919 as *People's Year Book and Annual of English and Scottish Wholesale Societies*. (*Vide* CO-OPERATIVE WHOLESALE SOCIETIES, ANNUAL OF, *supra*). C.W.S., Manchester.

Contain articles on co-operation in U.K. and abroad, progress of the movement during war, political developments, &c. Statistics of Wholesale Societies (supplies and profits, capital, sales, dividend, &c), with particulars of war-time purchases of estates, factories, &c.; statistics of Co-operative Union (number of societies, membership, &c.), and number of co-operative employees.

Perry, S. F. The Co-operative Party and the proposed Labour and Co-operative Political Alliance. Co-op. Union, Manchester. 1920. 10 pp.

Outlines steps taken with regard to political action and provisions of scheme for Labour and Co-operative alliance.

Williams, Burt. The Case for Co-operative Representation and how to obtain it. Co-op. Union, Manchester. 1918. 55 pp.

Discusses reasons for seeking political representation (unfair treatment of co-operators by Government during war), political programme of the movement and practical action to be taken.

Woolf, Leonard S. Co-operation and the Future of Industry. Geo. Allen & Unwin. 1918. 141 pp.

Describes existing position of co-operative movement, its ideals and working of the system, with historical account of its development. Discusses how far it is democratic in spirit, position of Labour in the movement, relations of co-operators and trade unionists, future of the movement and its relation to the State, changed attitude with regard to politics during war, &c.

¶ *Co-operative Journals :*

Better Business. A Quarterly Journal of Agricultural and Industrial Co-operation. Co-op. Reference Library, Dublin. 1*s*. (1st issue, Oct. 1915.)

Good articles on co-operation, agricultural and industrial, in U.K. and abroad. Contains useful information as to progress during war, political policy, action of co-operative societies in keeping down food prices, relation between agricultural and industrial co-operation, &c.

Co-operative Employee. *Vide supra*, p. 449.

Co-operative News. Co-op. Newspaper Society, Manchester. Weekly. 1½*d*.

Contains much useful information as to progress of co-operative movement (mainly industrial), influence of co-operative societies on prices, criticism of food control policy, effect of war on co-operative trade, relations between agricultural and industrial co-operation, relations with employees and trade union movement, political developments, &c. Full reports of meetings of Co-operative Wholesale Society, Congress, &c.

Co-operative Official. Co-op. Union, Manchester. Monthly. 2*d*. (1st issue, Nov. 1919.)

The official organ of the National Co-operative Managers' Association, the Co-operative Secretaries' Association and the National Union of Co-operative Officials. Contains information *re* activities of the Associations, relations with Amalgamated

Union of Co-operative Employees, articles on business organization, &c.

Co-operative Union Quarterly Review. Co-op. Union, Manchester.

Issued by United Board of Co-operative Union. Contains reports of matters dealt with by United Board, Committees and Sectional Boards. Gives information with regard to effect of war on the movement, agricultural co-operation, relations with employees, military service of co-operative officials, political attitude, &c.

Co-partnership. Co-partnership Publishers, 6, Bloomsbury Square. Monthly. 2*d.*

Contains information *re* progress of co-partnership and profit-sharing. Statistics annually (in Aug. or Sep.) of workmen's co-operative productive societies (capital, trade, profit and loss, dividend on wages).

Producer. Manchester. Monthly. 2*d.* (1st issue, Nov. 15, 1916.)

Contains notes and articles on progress of co-operation, food control and prices (especially in relation to co-operative movement), &c.

Scottish Co-operator. Glasgow. Weekly. 1½*d.*

Contains information with regard to progress and activities of co-operative movement, reports of meetings of societies, &c. Review in December of progress during year, changes as regards labour, wages, &c.

B. THE AGRICULTURAL LABOURER[1]

1. GENERAL

℄ *Official Publications :*

Ireland. Dept. of Agriculture. Agricultural Statistics, Ireland, 1914 : Report and Tables relating to Irish Agricultural Labourers. 1914–16, Cd. 8036, vol. 79. 35 pp. — *Ibid.*, 1915. 1916, Cd. 8386, vol. 32. 19 pp.

Give statistics as to number and movements of Irish migratory labourers, rates of wages for different classes of permanent agricultural labourers ; remarks as to supply of labour (shewing effect of enlistment, &c., &c.).

℄ *Books and Periodicals :*

Ashby, Arthur W. The Rural Problem. Social Reconstruction Pamphlets, No. 1. Athenaeum Literature Department. 1916. 40 pp.

Discusses rural problem generally. Urges need for education and association.

Gives some information as to course of wages up to 1916, extent to which employment of women has increased and wages paid, &c.

—— 'The Position of the Rural Worker in Industry.' *Vide* RUSKIN COLLEGE, *infra.*

—— and **Mabel R.** The Development of English Agriculture and Rural Life : An Introduction to Study. National Home Reading Union. 1918. 32 pp.

Describes conditions of agriculture before war, Government policy during war, growth of trade unionism, educational needs, &c.

Bensusan, S. L. 'Farmer and Farm Labourer : A Retrospect and a Review,' in *Jl. Bath and West and Southern Counties Soc.*, 1915–16 (5th Series, vol. 10), pp. 22–33.

Discusses change in status of labourer

[1] *Vide* also under AGRICULTURE, § III, B, 1, *supra*, pp. 135–64; and WOMEN : EMPLOYMENT IN AGRICULTURE, § V, D, 1, c, *infra*, pp. 489–94.

The collection of press-cuttings made by the Labour Research Department (*vide* footnote, p. 369, *supra*) includes cuttings on agricultural labour (labour shortage, employment of juveniles, women and soldiers, strikes, wages, trade unionism, &c.).

brought about by war, attitude of farmers towards improved conditions, &c.

Boston, Lady. The Agricultural Labourers of Wales and the forthcoming Housing Legislation. Welsh Housing and Development Association, Cardiff. 1917. 16 pp.

Discusses conditions of life and work of Welsh agricultural labourer (system of engagement and living in), comparing with conditions in England and Scotland. Discusses best type of cottage for Wales.

Green, Fredk. Ernest. 'Agriculture and the Minimum Wage,' in *N. C.*, Sep. 1917 (vol. 82), pp. 596–608.

Discusses scarcity of agricultural labour and action of War Office. Criticizes Corn Production Act as unnecessarily generous to farmers. Refers to refusal of farmers in Dorset to raise wages.

—— A History of the English Agricultural Labourer, 1870–1920. P.S. King & Son. 1920. 356 pp.

Pt. viii (pp. 233–331) deals with period 1914–20. Discusses employment of juvenile labour, course of wages of agricultural labourer, strikes, development of trade unionism, working of Wages Boards, &c. Somewhat biassed account.

Ruskin College. Some Problems of Urban and Rural Industry. The Re-organisation of Industry Series, II. Ruskin College, Oxford. 1917. 97 pp.

Pp. 76–97, 'The Position of the Rural Worker in Industry,' by A. W. Ashby (with discussion). Follows changes in position of rural workers during last thirty years. Discusses effect on their position of working of Small Holdings Act; the wages standard and the effect on it of women's intrusion into agriculture; the housing problem, &c.

2. STATE OF EMPLOYMENT, RECRUITING, ETC.[1]

℄ *Official Publications:*

Board of Agriculture. Agricultural Wages Board. *Wages Board Gazette.* (*Vide infra*, p. 463.)

Contains several articles on state of employment:—Sep. 15, 1919 (vol. 1), pp. 368–9, 'Employment in Agriculture' (comparing position in July 1919 with July 1914, and during war). Nov. 1 and 15, 1919 (vol. 1), pp. 445–9, 464–75, 'Report on the state of employment in agriculture in England and Wales in Sept. 1919.' Jan. 1 and 15, Feb. 2, 1920 (vol. 2), pp. 9–14, 33–42, 68–9, similar report (with divisional reports) on employment in Nov. 1919. Ap. 1, 1920 (vol. 2), pp. 150–2, similar report on employment at end of January 1920. (These all give statistics of numbers employed, comparing with previous dates). July 1, 1920 (vol. 2), pp. 327–31, 'Employment in Agriculture' (summarizing reports from different districts as to extent of dismissals and unemployment and likelihood of strikes).

—— Wages and Conditions of Employment in Agriculture, Report on. (*Vide infra*, p. 463.)

Sec. II deals with supply of labour and its quality. Discusses numbers employed before war and causes of decline, supply of labour since 1914 (soldier labour, prisoners of war, women, juveniles, Old Age Pensioners, immigration of workers, casual labour, standard of efficiency, &c.).

—— *Jl. Bd. Agric.* (*Vide supra*, p. 140.)

Contains notes on recruiting, employment of soldiers and prisoners of war, &c.

Board of Trade. State of Employment in U.K. in Feb. 1915, Report on. 1914–16, Cd. 7850, vol. 21. (*Vide supra*, p. 374.)

Contains (pp. 10–12) some information as to state of employment in agriculture at end of Jan. 1915, and steps being taken by farmers to meet labour shortage.

Scotland. Board of Agriculture. *Scottish Jl. Agric.* (*Vide supra*, p. 148.)

[1] *Vide* also under AGRICULTURAL LABOURER: GENERAL, § B, 1, *supra*.

Contains notes on supply of agricultural labour: i. e. Jan. and Ap. 1918, pp. 58–60, 211, 'Supply of Labour through the National Service Department' (*re* supply of soldiers); Oct. 1918 (vol. 1), pp. 457–8 and 459–60, 'The Recruiting of Agricultural Workers' and 'Issue of Vouchers to Agricultural Workers' (*re* recruiting).

3. WAGES AND CONDITIONS OF EMPLOYMENT[1]

¶ *Act of Parliament :*

Corn Production Act, 1917. 7 & 8 Geo. V. c. 46.

Pt. II (secs. 4–7) provides for payment of minimum wage to agricultural labourers and establishment of Wages Board.

¶ *Official Publications :*

Board of Agriculture. Agricultural Wages Board. *Wages Board Gazette.* 1st issue, Aug, 15, 1918. Twice monthly. 1*d.*

Contains Orders *re* rates proposed and fixed, summaries of proceedings of Agricultural Wages Board, notes *re* meetings of District Committees, enforcement of Orders, strikes, hours, &c. Includes some information as to Agricultural Wages Boards for Scotland and Ireland.

—— Wages and Conditions of Employment in Agriculture. Vol. 1. General Report. 1919, Cmd. 24. iv + 202 pp. Vol. 2. Reports of Investigators. Cmd. 25. iv + 504 pp.

Gives results of an inquiry made in the first half of 1918. Vol. 1, Pt. I. (pp. 1–179), deals with England; Pt. II. (pp. 180–202), with Wales. Vol. 2 gives detailed reports of investigators on each county.

Sec. I gives a general survey. Sec. II deals with supply of labour (*vide supra*, p. 462). Sec. III. Conditions of employment (classification of labour, contracts and agreements, methods of hiring, periods of engagement, living-in, regularity of employment, conditions of women's labour, agricultural gangs, hours of work (table for each county for different classes of labour), &c. Sec. IV. Wages and Earnings. Deals with questions of overtime, piece work, special payments, wages of boys and women, &c.; gives tables of cash wages, 1914, 1917 and 1918. Sec. V. Cottage accommodation and rents (*vide supra*, p. 27). Sec. VI. Relations between farmers and labourers, allotments and small holdings (demand and supply), Friendly Societies, Trade Unions, general economic position of agricultural worker compared with pre-war position.

Board of Trade. *Labour Gazette*, Aug. 1914 (vol. 22), pp. 285–6; Feb. and July 1915 (vol. 23), pp. 42, 239; Feb. 1916 (vol. 24), p. 67. 'Farm Servants' Wages in Scotland.'

Gives rates in force at various dates.

—— *Ibid.*, June 1915 (vol. 23), p. 200. 'Changes in Wages of Agricultural Labourers.'

Gives statistics of changes in rates of wages up to April 1915, and estimates number of men affected.

—— *Ibid.*, July 1917 (vol. 25), pp. 239–40. 'Cash Rates of Wages of Agricultural Labourers in England and Wales at Jan. 1914 and Jan. 1917.'

Gives rates for different classes and in different districts.

Scotland. Board of Agriculture. Farm-workers in Scotland, 1919–20, Report on, by Sir James Wilson. H.M.S.O. 1921. vi + 78 pp.

Deals with wages, allowances, conditions of employment and working hours of various classes of farm workers. Gives minimum wages fixed under Corn Production Act and numerous tables.

—— *Ibid. Scottish Jl. Agric.* July and Oct. 1918 (vol. 1), pp.

[1] *Vide* also §§ B, 1, *supra*, pp. 459–62, and B, 4, *infra*, pp. 467–8.

325–36, 434–41 ; Jan., Ap., and July 1919 (vol. 2), pp. 63–4, 218–22, 399–401. 'Minimum Wages for Agricultural Workers.'

Contain information as to steps taken under Corn Production Act, formation of Central and District Wages Committees, rates fixed by different committees, values placed on allowances, present wages (estimated) of ploughmen compared with pre-war period. Official Orders *re* wages are given in issues for Jan., Ap. and July 1919. *Vide* also WILSON, SIR JAMES, *infra*, p. 466.

¶ *Books and Periodicals :*

Ashby, Arthur, W. 'The Work of the Agricultural Wages Board in 1918,' in *Jl. Roy. Agric. Soc.*, 1918 (vol. 79), pp. 138–56. 'The Work of the Agricultural Wages Board in 1919,' in *Ibid.*, 1919 (vol. 80), pp. 164–201.

Reviews work of the Board and reception of its Orders.

Bowley, A. L. Prices and Wages in U.K., 1914–20. (*Vide supra*, p. 403.)

Chap. xiii, pp. 169–76. Discusses, with tables, the course of wages of agricultural labourers in England and Wales and in Scotland from 1914 to 1920.

Diack, W. 'Farm Workers and the Minimum Wage,' in *E. W.*, June 1917 (vol. 34), pp. 190–5.

Gives some information as to rise in wages (especially in Scotland) during war. Discusses some difficulties in fixing minimum wage.

Forrest, J. R. C. The Agricultural Labourer and the Minimum Wage. Reprinted from *The Commonwealth*. 2nd ed. (?) 1918. 15 pp.

Discusses Corn Production Act. Argues that minimum wage has been fixed too low. Gives budget, at existing and pre-war prices, of a labourer known to author.

Kendall, May. *Vide* ROWNTREE, B. S., and KENDALL, MAY, *infra*.

Labour Year Books, 1916 and 1919. (*Vide supra*, pp. 369–70.)

Year Book for 1916, pp. 199–201, contains brief account of position as regards agricultural labourers' wages up to 1914, giving figures supplied by Agricultural Labourers' Union of average county rates obtaining in England and Wales in Aug. 1914. Year Book for 1919, p. 191, gives average rates in Aug. 1914 and May 1917.

Rogers, A. G. L. 'Agriculture and Wages,' in *Anglo-French Review*, Mar. 1920 (vol. 3), pp. 138–43.

Discusses briefly improvement in position of agricultural labourer in the last five years and attitude of farmers and labourers.

Rowntree, B. Seebohm, and **Kendall, May.** How the Labourer lives. Thos. Nelson & Sons. 2nd ed. 1917. 342 pp.

Is reprint of first edition (1913), giving budgets of agricultural labourers in 1912 and 1913. Reprinted to show that proposed minimum wage will be insufficient to maintain reasonable standard of comfort.

Scottish Farmer Album for 1916, pp. 155–62. 'The War and Farm Labour—Retrospective and Prospective,' by 'An Ex-ploughman.' Scottish Publishing Co., Glasgow.

Discusses course of wages during war, mainly in Scotland, quoting instances of fees at hiring fairs. Compares position of Scottish and English labourer as regards wages and allowances. Gives statistics, obtained from trade union officials, estimating wages in Scotland and England before war and in autumn of 1915.

—— for 1920, pp. 129–37. 'Farm Servants' Wages in Scotland,' by 'An Old Farm Servant'.

Discusses increase in wages during war, giving some information as to amount and value of allowances in different parts of Scotland. Compares wages of single and married men during war.

Wilson, Sir James. 'Agricultural Wages in Dumfries and Galloway District,' in *Scottish Jl.*

Agric., July 1920 (vol. 3), pp. 329–34.

Gives information, based on replies from 100 farmers, as to wages, allowances, hours &c., of different classes of farm-workers and of women regularly employed, in winter half-year 1919–20. (*Vide* also Report on Farm-workers in Scotland, 1919–20, under SCOTLAND, *supra*, p. 464.)

4. TRADE UNIONISM [1]

¶ *Trade Union Journals :*

The Labourer. First issue, Feb. 1915. Hempton, Fakenham, Norfolk. Quarterly. 1*d.* Contd. from May 15, 1919, as *The Land Worker*. 72 Acton St., Grays Inn Rd. Monthly. 1*d.*

Organ of Nat. Agricultural Labourers and Rural Workers' Union (now Nat. Union of Agricultural Workers).

The Land Worker. *Vide* THE LABOURER, *supra*.

The Scottish Farm Servant. Queensgate, Stirling. Monthly. 2*d.*

C. JUVENILE LABOUR [2]

¶ *Act of Parliament :*

Employment of Women, Young Persons, and Children Act, 1920. 10 & 11 Geo. V. c. 65. 9 pp.

¶ *Official Publications :*

Board of Education. Annual Reports for 1914–15 to 1918–19. (*Vide supra*, p. 50.)

Contain some information and statistics as to employment of school children. Report for 1918–19 contains brief accounts (pp. 4–6) of the work of the Juvenile Organizations Committee (*re* provision of recreation) and (pp. 52–4) of the Juvenile Unemployment Centres.

—— Chief Medical Officer of the Board. Annual Reports for 1914 to 1919. (*Vide supra*, p. 4.)

Contain sections on juvenile employment, giving some information as to increased employment of children of school age, by-laws made by local authorities, &c. Discuss effect of employment on children's health.

—— Juvenile Education in relation to Employment after the War, Departmental Committee on. Int. Report. 1916, Cd. 8374, vol. 8. 4 pp. Final Report and Summaries of Evidence and Appendices. 1917–18, Cd. 8512, 8577, vol. 11. 42 pp., 89 pp.

Discusses steps to be taken for education of children and young persons after war, with reference especially to those who have been abnormally employed during war. Recommends uniform school-leaving age, day continuation classes, &c. Incidental references to extent of juvenile employment during war, change of attitude of employers towards education, existing systems of training.

[1] *Vide* also § B, 1, *supra*, pp. 459–62.

[2] *Vide* also under AGRICULTURE, § III, B, 1, *supra*, pp. 135–64, and under LABOUR: CONDITIONS OF EMPLOYMENT, § V, A, 5, *supra*, pp. 407–24.

A valuable collection of press cuttings dealing with the employment, in agriculture and other occupations, of school children and juveniles (wages, hours, conditions of work, &c.), during the years 1914–17, has been made by the *Fabian Women's Group*. The collection includes a MS. pamphlet, 'Our Children,' Aug. 1914 to Aug. 1916' (28 pp.), based on this material and on personal experience. The collection may be inspected on application to the Secretary of the Fabian Women's Group, 25 Tothill St., Westminster. The collection of press cuttings made by the *Labour Research Department* (*vide* footnote, p. 369, *supra*) also includes cuttings dealing with juvenile employment.

—— School Attendance, Correspondence relating to, between Bd. of Educ. and certain Local Authorities since outbreak of war. 1914–16, Cd. 7803, vol. 50. 19 pp. —School Attendance and Employment in Agriculture. Summaries of returns supplied by Local Educ. Authorities for the periods Sep. 1 1914 to Jan. 31, 1915, and Sep. 1, 1914 to Ap. 30, 1915. 1914–16, Cd. 7881, 7932, vol. 50. 25 pp., 6 pp. —Summaries of Returns of children excused from school for employment in agriculture on Jan. 31, 1916, May 31, 1916, Oct. 31, 1916. 1916, Cd. 8202, 8302, 8171, vol. 22. 4 pp. each.

The two first relate to employment in industrial and other occupations as well as agriculture.

Ministry of Labour. *The Month's Work.* (*Vide supra*, p. 365.)

Contains, *passim*, notes on employment of juveniles during and after war, Juvenile Unemployment Centres, &c.

—— *Weekly Report.* (*Vide supra*, p. 393.)

Contains reports from the divisions as to state of employment for juveniles after Armistice, work of the Juvenile Unemployment Centres, Apprenticeship schemes, recreation, after-care, &c.

Ministry of Munitions. The Boy in Industry. Three articles reprinted from *Daily Telegraph*, with Foreword by Dr. Addison. 1917. 47 pp.

Discusses generally the problems connected with employment of boys and recommends scheme of welfare supervision.

—— Health of Munition Workers Committee. Mem. No. 13. Juvenile Employment. 1916, Cd. 8362, vol. 23. 8 pp.

Discusses conditions under which juveniles, especially boys, are working, hours, Sunday and night work, welfare supervision, &c. Gives evidence of fatigue.

Ministry of Reconstruction. Juvenile Employment during the War and after. Report of an inquiry, with Foreword by C. Addison. H.M.S.O. 1918. 114 pp.

Useful report, based on inquiry made by Ministry of Labour from about 3,000 firms, 1917–18. Describes course of juvenile employment during war, nature of employment, effect on training and character, &c. Gives typical examples of wages in one area. Statistics of employment in different industries, compared with pre-war position, and increase in exemption from school attendance. Appendices contain reports of inquiries into conditions of war-time employment of errand boys and girls, van boys, boys and girls in commercial occupations and temporary Government girl clerks. Tables are based on an unpublished report of Industrial (War Inquiries) Branch of Board of Trade on state of employment in Oct. 1917.

—— Reconstruction Problems. No. 15. Juvenile Employment. H.M.S.O. 1919. 22 pp.

Discusses results of war-time employment of juveniles. Gives some figures as to increase in employment of school children and exemption from school attendance and movement from one industry to another. Discusses nature of war-time employment and attitude of the boys. (This pamphlet is amplified in 'Juvenile Employment during the War and after', *vide supra*.)

Post Office. Boy Labour in the Post Office, 5th Annual Report of Standing Committee on. 1914–16, Cd. 8019, vol. 32. 22 pp.

Deals with conditions of employment, numbers employed, &c. Refers mainly to 1914. Describes policy of Post Office as to taking on of boy recruits during war, suggested employment of disabled soldiers and sailors on messenger work, educational arrangements, &c.

Scotland. Committee of Council on Education in Scotland. Annual Reports for 1915–16 to 1919–20. (*Vide supra*, p. 56.)

Contain very brief references to increased employment of children of school age.

¶ *Books and Periodicals :*

Adler, N. 'Women's Industry after the War,' *C. R.*, Dec. 1915 (vol. 108), pp. 780–8.

Discusses war-time employment of school children. Gives some figures from provinces showing increased demand for juveniles in trade. Discusses work of Juvenile Advisory Committees, &c. in London. Gives examples of increased willingness of employers to grant facilities to juvenile workers for education and technical training.

Andrews, Irene O. Economic Effects of the War upon Women and Children in Great Britain.

Vide infra, p. 478.

Carnegie Endowment for International Peace. Economic Effects of the War upon Women and Children in Great Britain.

Vide infra, p. 478 (under Andrews, Irene O.).

Central and Associated Chambers of Agriculture, Journal of. Dec. 1914 (N.S. vol. 3), pp. 178–82, and Feb. 1915 (vol. 4), pp. 13–16.

Reports of meetings of local Agricultural Societies, Education Committees and Council of the Chambers, at which employment of school children in agriculture was discussed. The *Journal* also contains, *passim*, resolutions passed by local agricultural societies in favour of exemption from school attendance.

Cole, G. D. H. Labour in War-Time. (*Vide supra*, p. 366.)

Chap. ix (pp. 254–74), 'Child Labour—The Factory Acts'. Reviews course of events with regard to exemption of children from school attendance for employment in agriculture and industry, attitude of Local Authorities and Government and of farmers.

Collier, D. J. The Girl in Industry. With Foreword and Introduction by B. L. Hutchins. G. Bell & Sons. 1918. xvi + 56 pp.

Based on an inquiry, begun in Oct. 1916, at Birmingham and Coventry munition works and Lancashire and Yorkshire textile factories. Discusses effect on health of industrial employment of young girls generally and under war conditions. Conclusions are based on personal observations, evidence from doctors, welfare supervisors, &c., not on statistical data, and are of a tentative character.

Elwin, Herbert H. 'The Child and Agriculture,' in *The Labourer*, July 1917, p. 15.

Refers to deputation from Parliamentary Committee of Trades Union Congress to President of Bd. of Education *re* education problem. Gives tables of hours, wages and nature of work on which children are being employed in fourteen counties.

Green, F. E. A History of the English Agricultural Labourer. (*Vide supra*, p. 462.)

Pp. 235–41. Discusses the question of war-time employment of children of school age in agriculture, and attitude of farmers, Local Authorities and press.

Greenwood, Arthur. 'Agriculture and Child Labour,' in *P. Q.*, May 1915 (No. 6), pp. 119–44.

Discusses extent to which children have been released from school for farm work and whether this course was necessary.

Heath, J. St. George. The War and some Problems of Adolescence. Christian Social Union, Pamphlet No. 48. 1916. 7 pp.

Discusses briefly effect on adolescents of war conditions as regards discipline (in home and factory), fatigue and consequent craving for excitement, and character of work.

Lawrence, A. Susan. 'Child Labour on Farms,' in *The Labourer*, Feb. 1915, pp. 10–11.

Describes action taken by certain Education Authorities with regard to employment of children in agriculture.

Political Quarterly. (1) Feb. 1915 (No. 5), pp. 184–90 and (2) May 1915 (No. 6), pp. 188–93. 'Local Government: Education Authorities and the War.'

(1) Refers to steps taken to deal with expected unemployment among juveniles, e. g. by day trade schools. (2) Deals with increased demand for school buildings by military authorities and movement for employment of children of school age, discussing ways in which the law has been evaded.

Workers' Educational Association. Child Labour in Agriculture. 1915. 6 pp.

Gives tables of exemptions of children from school attendance for employment in agriculture in different counties, and suggestions from Workers' Educational Association to Board of Agriculture with regard to such employment.

—— Child Labour and Education during the War and after. 1915. 28 pp.

Deals with relaxation of by-laws during war. Gives list of authorities granting temporary exemptions and statistics of children exempted. Makes suggestions for reform of present conditions.

℄ *Journal :*

The School Child and Juvenile Worker. Monthly. 1*d.*

Contains articles and notes on employment of school children in agriculture and other work (especially in earlier numbers), education, &c.

D. WOMEN

1. EMPLOYMENT, WAGES, ECONOMIC AND SOCIAL STATUS [1]

a. GENERAL

℄ *Acts of Parliament :*

Employment of Women, Young Persons and Children Act, 1920. 10 & 11 Geo. V. c. 65. 9 pp.

Sex Disqualification (Removal) Act, 1919. 9 & 10 Geo. V. c. 71. 3 pp.

℄ *Official Publications :*

Board of Trade. Increased Employment of Women during the war in U.K., Report on, with statistics up to Ap. 1918. 1918, Cd. 9164, vol. 14. 16 pp.

Gives number of women employed

[1] For the payment of separation allowances, which materially affected the position of women during the war, *vide* § VI, B, *infra*, pp. 507–18.

An extensive and valuable collection of printed and MS. material relating to women's work during the war has been made by Miss Agnes E. Conway, Hon. Secretary of the Women's Work Section of the *Imperial War Museum Library*, which is at present located at 25 South Audley Street. The collection includes official reports and memoranda (some unpublished), reports of various organizations, press-cuttings, correspondence, &c., dealing with the state of employment for women generally, relief work, substitution, national service, and employment of women in various occupations (nursing and other work connected with military operations, agriculture, Civil Service, munitions, police and patrol work, railways, &c., &c.).

A useful classified collection of press-cuttings has also been made by the *Fabian Women's Group* (25 Tothill St., Westminster). The collection deals with unemployment and relief schemes, substitution of women in various industries (including agriculture), national registration scheme, wages, efficiency of women, training schemes, attitude of trade unions, &c. It relates mainly to the years 1914–16.

The collection of press-cuttings made by the *Labour Research Dept.* (*vide* footnote, p. 369, *supra*) also includes cuttings on women in industry and other occupations, women and politics, equal pay for equal work, trade unionism, &c.

Board of Trade (*cont.*)

compared with July 1914 and number replacing males, in different occupations, including agriculture. Gives analysis of previous occupations.

—— *Labour Gazette.* Oct. 1916 (vol. 24), pp. 356–8; Jan., Ap., Aug., Nov., 1917 (vol. 25), pp. 7–8, 125–6, 274–5, 395; Feb. and June 1918 (vol. 26), pp. 48–9, 216–7. 'The Extension of Women's Employment during the War.'

Gives statistics, for various dates, of estimated increase in number of women employed in different occupations, including agriculture, as compared with July 1914, and number replacing men. Contains more detail than is given in Cd. 9164, *supra.*

—— *Ibid.*, Nov. 1916 (vol. 24), p. 402. 'The Work of the Board of Trade Local Advisory Committees upon Women's War Employment.'

Describes the constitution and work of the Committees (e. g. in organizing lodging accommodation and welfare schemes, &c.).

—— *Ibid.*, Dec. 1917 (vol. 25), p. 438. 'Changes in the Occupations of Women and Girls during the War.'

Gives some statistics as to previous occupations of women and girls working in insured trades at Jan. 1917. (These figures are repeated in Cd. 9164, *supra.*)

Home Office. Substitution of Women in Non-Munition Factories during the War. H.M.S.O. 1919. 52 pp.

Pt. I describes nature of work done by women (management, supervision, scientific work, process work, labouring), organization of training, &c., and discusses value of the women compared with that of the men they replace. Pt. II describes extent of substitution in various trades, changes in methods of work, modification of Factory Acts, trade agreements as to substitution, trade union organization of women, &c.

—— Substitution of Women for Men during the War. Reports of H.M. Inspectors of Factories showing position in certain industries at end of 1918. H.M.S.O. 1919. 142 pp.

These are the detailed reports on which general report (*supra*) is based. Give the processes on which women have been substituted, whether considered suitable for women in normal times, whether skilled, semi-skilled or unskilled, reasons militating against women's employment, &c. Give particulars of agreements between trade unions and employers.

Ministry of Labour. *Weekly Report.* (*Vide supra*, p. 393.)

Contains reports from the divisions as to discharges of women after the Armistice, position as regards their employment, arrangements made for training (domestic and industrial).

Ministry of Munitions. Women's Service Committee.

Vide supra, p. 410.

Ministry of Reconstruction. Subsidiary Health and Kindred Services for Women, Memorandum on, by Miss A. M. Anderson. 1918. H.M.S.O. 24 pp.

Reviews position and prospects as regards employment of women in maternity and child welfare work, in industrial welfare work, as care committee and club organizers, as patrols and policewomen, probation officers, &c.

—— Women's Advisory Committee. Co-ordination of the Vocational Training of Women, Interim Report of Sub-Committee on. H.M.S.O. 1918. 8 pp.

Reviews existing position, e. g. training of women by Ministry of Munitions, training of widows by Ministry of Pensions, &c., and makes recommendations as to steps to be taken.

—— Women's Employment Committee, Report of, with Ap-

pendices.[1] 1918, Cd. 9239, vol. 14. 116 pp.

Deals mainly with opportunities for women after war and regulations which should be made. Contains incidental references to conditions during war, but information mostly taken from other published reports. Appx. IV gives some statistics as to wages in non-munition industries, 1915–18, compared with 1906. List of trade unions with statistics of female membership 1914–17 is given (pp. 40–43 and Appx. VII, pp. 94–106).

War Cabinet. Women in Industry, Report of War Cabinet Committee on. 1919, Cmd. 135. 8vo. 341 pp. Appendices, Summaries[2] of Evidence, &c. 1919, Cmd. 167. Folio. 250 pp.

Gives an account of employment of women during war in various trades, comparison between men and women as regards output, cost, &c., and course of women's wages (history of Government Orders, &c); discusses future prospects and relations between men's and women's wages; discusses Government pledges affecting women's work. Minority Report, by Mrs. Sidney Webb, deals with principles on which wages should be based, war pledges, &c.

War Office. Women's Work in maintaining the Industries and Export Trade of U.K. 1916. 94 pp.

Published by War Office to encourage substitution. Gives list of processes on which women are being successfully employed in replacement of men, with illustrations.

¶ *Books and Periodicals :*

Adler, N. 'Women's Industry after the War,' in *C. R.*, Dec. 1915 (vol. 108), pp. 780–8.

Discusses increased employment of women during war and future prospects.

Anderson, Adelaide M. *Vide* under CHAPMAN, S. J., *infra.*

Andrews, Irene O. Economic Effects of the War upon Women and Children in Great Britain. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War. Ed. by David Kinley. Oxford Univ. Press, New York. 1918. x + 190 pp.

Describes pre-war work of women and children and legislation affecting it, effect of war on employment of women and manner in which their labour was organized, noting difficulties and criticism encountered. Discusses sources of supply, training, attitude of trade unions, control under Munitions Acts, wages, hours, welfare work, &c. Discusses effect of war on employment of children.

Barton, Dorothy M. 'The Course of Women's Wages,' in *Jl. Roy. Stat. Soc.*, July 1919 (vol. 82), pp. 508–53 (with discussion).

Gives some account of increase of women's wages during war.

Bell, Florence (Lady Bell). 'Women at the Works—and elsewhere,' in *F. R.*, Dec. 1919 (vol. 106), pp. 909–20.

Discusses the 'shaking up' of women during the war and possible consequences of the upheaval.

Bowley, A. L. Prices and Wages in U.K., 1914–20. (*Vide supra*, p. 403.)

Chap. xv (pp. 184–99) discusses course of women's wages.

Bristol Association for Industrial Reconstruction. Report of Conference between Organisers of Trade Unions, Bristol Employers and others, held at 'Penscot', Shipham, Somerset, Mar. 16 and 17, 1918, on the Position of Women in Industry after the War.

[1] A type-written copy of the Minutes of Evidence is to be seen at the Imperial War Museum Library, Women's Work Section (*vide* footnote on p. 473, *supra*).

[2] A type-written copy of the Minutes *in extenso* is to be seen at the Imperial War Museum Library (*vide* previous note).

J. W. Arrowsmith, Bristol (printer). 1918. 23 pp.

Outlines position occupied by women in industry during war, and makes recommendations with regard to their future employment, organization, rate of wages, &c.

British Assoc. for Advancement of Science (Economic Science Section). (1) Credit, Industry and the War. 1915. x + 268 pp. (2) Labour, Finance and the War. 1916. viii + 344 pp. (3) Industry and Finance: War Expedients and Reconstruction. 1918. viii + 371 pp. (4) *Ibid.* Supplementary Vol. 1920. viii + 150 pp. Ed. by A. W. Kirkaldy. Sir Isaac Pitman & Sons.

(1) Chap. iii (pp. 68–92); (2) Chap. iii (pp. 58–213); (3) Chap. ii (pp. 24–125); and (4) Chap. i (pp. 1–105), are reports, based on investigations made in London, Birmingham, Glasgow, Leeds, Belfast, &c., on the extension of women's employment during war, discussing how far they actually replace men, nature of processes, efficiency of women's work, time-keeping, wages, sources of female labour, attitude of trade unions, women's trade unions, &c. Detailed reports given on various trades (engineering and shipbuilding, metal trades, leather, woollen, &c.). The volumes are in continuation of one another. Final volume reviews position up to April 1919.

Carnegie Endowment for International Peace. Economic Effects of the War upon Women and Children. *Vide* ANDREWS, IRENE O., *supra*.

Chapman, S. J. (Ed.). Labour and Capital after the War. (*Vide supra*, p. 366.)

Chap. iv (pp. 71–91) by Adelaide M. Anderson. Gives an account of the extension of the employment of women during war, and discusses its significance and future outlook.

Chap. ix (pp. 205–30) by A. Susan Lawrence. Reviews position before war as regards women's wages and course of wages during war in munition and other industries, comparing them with cost of living. Discusses future outlook.

Cole, G. D. H. Labour in War Time. (*Vide supra*, p. 366.)

Discusses (in Chap. viii), extent to which women's employment is being extended in various industries and attitude of trade unions.

—— and **Arnot, R. Page.** Trade Unionism on the Railways. (*Vide supra*, p. 445.)

Chap. xii (pp. 62–4), 'Women on the Railways'. Describes increase in numbers, wage disputes and settlements, attitude of Nat. Union of Railwaymen.

Committee, Joint Standing, of Industrial Women's Organisations. The Position of Women after the War: Report presented to the Joint Committee on Labour Problems after the War. Labour Party. 1917. 20 pp.

Discusses effect of war on industrial position of women and makes recommendations as to post-war measures to be taken for improvement of women's position.

D., H. S. and **Day, S. R.** 'Women in Post-War Industry. I. The Man's Point of View [by H. S. D.]. II. The Woman's Point of View [by S. R. Day]', in *Production*, July 1918, pp. 10–16.

Discusses position of women in industry during war and probable post-war position, questions of direct competition between men and women and equal pay for equal work, restoration of trade union conditions, &c.

Economist, Feb. 3, 1917 (vol. 84), pp. 177–9. 'Women's Employment and the War.'

Explains disproportion between great demand for women's labour and low wages offered, giving an account of wages and conditions generally obtaining for women in Civil Service, in munitions and other factory work, transport, agriculture, &c., during war.

Englishwoman, Dec. 1916 (vol. 32), pp. 210–20. 'Problems of the Day: The Reserve of Woman Power.'

Discusses slowness of employers and Government to employ women, inadequacy of wages paid, &c.

—— Ap. 1917 (vol. 34), pp. 11–19. 'Problems of the Day: Women's Service.'

Criticizes Women's National Service scheme, its vagueness, delay in utilizing services of women, &c.

Family Endowment Committee. Equal Pay and the Family: A Proposal for the National Endowment of Motherhood. Reprinted by Nat. Union of Societies for Equal Citizenship. Headley Bros. 70 pp.

Discusses scheme for endowment of motherhood. Discusses change in economic position of women during war owing to payment of separation allowances.

Garton Foundation. Tracts for the Times. III. The Relation between the Wages of Men and Women. Issued for private circulation only. 1919. 12 pp.

Contains some discussion as to effect of war on position of women wage-earners (higher wages, better training, changed mental attitude of women), and on relation between men's and women's wages.

Gollancz, Victor (Ed.). The Making of Women. Oxford Essays in Feminism. By A. Maude Royden and others. George Allen & Unwin, London. Macmillan Co., New York. 1917. 217 pp.

Chap. iv (pp. 100–2), 'The Remuneration of Women's Services', by Eleanor F. Rathbone, discusses effect of war conditions on position of women industrial workers and working-class mothers, and examines claim for equal pay for equal work.

Chap. v (pp. 128–46), 'The Woman's Movement of the Future', by A. Maude Royden, discusses effect of war conditions and work done by women on attitude towards them and need for endowment of motherhood. Appx. B (pp. 215–17) discusses statistics of employment.

Greenwood, A. 'How Re-adjustments may be facilitated after the War.' *Vide* RUSKIN COLLEGE, *infra*.

Hale, M. A. 'Women in the Furnishing Trades in London,' in *W. I. N.*, Oct. 1915 (vol. 19), pp. 400–6.

Report of an inquiry into conditions of work, wages, &c. Refers incidentally to effect of war, e. g. changes in demand for furniture, transfer of upholsteresses to other trades.

Haslam, James. 'Army Clothing Contracts,' in *E. W.*, Mar. 1915 (vol. 25), pp. 224–35.

Discusses the low wages being paid to women in khaki-weaving and making up of army clothing.

Hutchins, B. L. Women in Industry. G. Bell & Sons. 1915. xix + 315 pp.

Chap. vii (pp. 239–65), 'The Effects of the War on the Employment of Women', discusses state of employment in different trades, steps taken to deal with unemployment, registration for war work, extent to which women are replacing men, and possible effects of war on future position of women.

—— 'The Position of the Woman Worker after the War,' in *Econ. Jl.*, June 1916 (vol. 26), pp. 183–91.

Discusses increase of industrial employment of women during war and factors tending to promote or restrict such employment after war.

—— Women in Industry after the War. Social Reconstruction Pamphlets, No. III. *The Athenaeum*. (?) 1918. 28 pp.

Mainly discusses future prospects but touches also on question of women's employment during war (numbers employed, wages paid, trade unionism, &c.).

Lawrence, A. Susan. *Vide* under CHAPMAN, S. J., *supra*, and PHILLIPS, MARION, *infra*.

Macassey, Lynden. 'The Economic Future of Women in

Industry,' in *Q. R.*, July 1919 (vol. 232), pp. 73–89.

Discusses position of women in industry before and during war and future prospects.

McLaren, Barbara. Women of the War. With an Introduction by H. H. Asquith. Hodder & Stoughton. 1917. xii + 148 pp.

Gives brief accounts of the work undertaken by various women, as representative of women's war work.

Manchester, Salford and District Women's War Interests Committee. Women in the Labour Market (Manchester and district) during the War. William Morris Press, Manchester. (?) 1916. 29 pp.

Gives an account of substitution of women for men in various trades, wages paid, attitude of trade unions, training schemes, &c. Relates to period May 1915 to Jan. 1916.

Manners, O. N. 'What to do with Women Workers when the Men come back,' in *System*, Mar. 1919 (vol. 35), pp. 161–6.

Describes some steps being taken and makes suggestions.

Mitchell, Eliz. B. 'The Place of the Woman Worker in Reconstructed Industry', in *Proc. Roy. Phil. Soc. Glasgow*, 1916–17 (vol. 48), pp. 115–25.

Discusses extent of women's employment during war and future prospects.

Palliser, Edith. 'A Will and no Way,' in *E. W.*, Ap. 1916 (vol. 30), pp. 54–8.

Gives an account of women's attempts to share in war work, registration, &c.

Parsons, Lady. 'Women's Work during and after the War', in *Jl. Roy. Soc. Arts*, Feb. 4, 1916 (vol. 64), pp. 229–37 (with discussion).

Gives some account of the work undertaken, especially by professional women.

Phillips, Marion. 'Women in Industry.' *Vide* RUSKIN COLLEGE, *infra.*

—— Women and the Labour Party. By various Women Writers. Ed. with an Introduction by Marion Phillips. Headley Bros. 1918. 110 pp.

Pp. 94–101, 'The Woman Wage-earner,' by A. Susan Lawrence. Shows what has been effected by legislation in improving wages, e. g. by Trade Boards. Gives instances of wages paid in certain munitions firms before and after application of Ministry of Munitions Orders. (Other papers deal with endowment of motherhood, housing, internationalism, &c.)

Rathbone, Eleanor. 'The Industrial Outlook for Women after the War,' in *E. W.*, Ap. 1917 (vol. 34), pp. 1–10.

Discusses attitude of trade unions and of women themselves towards continued employment of women.

—— 'The Remuneration of Women's Services.' *Vide* GOLLANCZ, VICTOR, *supra.*

Reeves, M. S. The War and Women. Pamphlets on Problems of National Reconstruction, No. III. *The Athenaeum*. 1917. 7 pp.

Describes course of changes in outlook and in actual position of women in industrial world before and since outbreak of war, noting new occupations filled by women. Discusses future position.

Robins, Elizabeth. 'Conscription for Women,' in *C. R.*, Ap. 1917 (vol. 3), pp. 478–85.

Discusses attitude of working women towards industrial conscription of women. Quotes examples of low wages being paid. Discusses attitude of trade unions to women's employment.

Robinson, Mrs. Annot. 'The Substituted Labour of Women, 1914–17', in *Trans. Manchester Stat. Soc.*, 1917–18, pp. 59–79.

Discusses extent of substitution, wages, value of women's work, future prospects, &c.

Round Table, Mar. 1916 (No. 22), pp. 253–84. 'The Problem of Women in Industry.'

Discusses the principle on which standard of women's wages should be fixed, with some reference to effect of war on industrial and social status of women.

Royden, A. Maude. 'The Woman's Movement of the Future.' *Vide* GOLLANCZ, VICTOR, *supra.*

Ruskin College. The Reorganisation of Industry, I. (*Vide supra,* p. 371.)

Pp. 18–42, 'How Readjustments may be facilitated after the War', by A. Greenwood. Discusses increase of efficiency in industry during war, especially in regard to women's work, the position of women in industry and future policy.

—— Some Problems of Urban and Rural Industry. The Reorganisation of Industry Series, II. Ruskin College, Oxford. 1917. 97 pp.

Pp. 36–59, 'Women in Industry', by Marion Phillips. Discusses psychological and economic changes in the position of women brought about by war, extent to which women's wages have risen, future prospects and difficulties, especially with regard to trade union rules.

Stone, Gilbert (Ed.). Women War Workers. With Foreword by Lady Jellicoe. George G. Harrap & Co. 1917. 320 pp.

Somewhat popular accounts by various writers, mainly from their personal experiences, of war work undertaken by women (in munition work, agriculture, banking, bus-conducting, nursing, &c.). Gives particulars of war organizations for obtaining employment for women and for organizing employment.

Swanwick, H. M. 'The War in its Effect upon Women,' in *Annual of Co-operative Wholesale Societies,* 1917, pp. 231–56.

Discusses effect of war on women as regards their employment in industry and in professions, their economic, political and social status, and their attitude to public questions.

System. (*Vide supra,* p. 108.)

Contains, in 1916, 1917, 1918, frequent articles on substitution of women for men in factories and offices, methods of organization and training adopted, &c.

Tuckwell, Gertrude. 'Equal Pay for Equal Work,' in *F. R.,* Jan. 1919 (vol. 105), pp. 63–76.

Discusses expansion of women's employment during war, attitude of trade unions, and question of equal pay.

—— 'Women in Industry', in *N. C.,* Feb. 1920 (vol. 87), pp. 331–42.

An argument, in the light of war experience, for maintaining women in industry.

Usborne, Mrs. H. M. Women's Work in War-Time: A Handbook of Employments. T. Werner Laurie. 1917. 174 pp.

Gives information with regard to occupations open to women, especially since war, with particulars *re* training required, salaries offered, &c.

Women's Co-operative Guild. Replacement of Men by Women: An Appeal from the W.C.G. (Reprinted from *Co-operative News*), n.d. 11 pp.

Discusses proposals put forward as to rates of pay of women replacing men in co-operative movement. Gives a few examples of men's rates being paid by co-operative societies.

¶ *Labour Journal:* [1]

The Labour Woman. Labour Party. Monthly. 1*d.*

The Organ of the Women's Labour League. Deals with women's employment, separation allowances, cost of living, housing and women's interests, international labour and socialist movement amongst women, &c.

[1] *Vide* also *Trade Union Journals,* § D, 2, *infra,* p. 506.

b. UNEMPLOYMENT AND RELIEF WORK [1]

¶ *Official Publications :*

Board of Trade. *Labour Gazette.* (*Vide supra*, p. 365.)

Gives statistics monthly, up to July 1915 inclusive, of number of applications registered and vacancies offered and filled, at Women's Employment Bureaux. Also articles on 'Unemployment among Women', Nov. 1914 (vol. 22), p. 395; Feb. and March 1915 (vol. 23), pp. 38–9, 78–9.

Local Government Board. Women's Employment, Central Committee on, Int. Report of. 1914–16, Cd. 7848, vol. 37. 42 pp.

Gives an account of work of the Committee, in obtaining Government contracts, promoting new openings for women, relief work and training schemes. No further Report issued.

Scotland. Local Government Board. National Relief Fund, Reports by Scottish Advisory Committee on administration of, in Scotland. (*Vide supra*, p. 378.)

Vide especially the first Report (Cd. 8129). Contains (Appx. 1, pp. 8–16) report of the Scottish Committee on Women's Employment.

¶ *Books and Periodicals :*

Brown, C. Leadley. 'Relief Workrooms,' in *E. W.*, Nov. 1915 (vol. 28), pp. 123–34.

Criticizes policy of relief workrooms generally, supporting arguments from experience of what is taking place.

Charity Organisation Review, Ap. 1915 (N.S. vol. 37), pp. 220–4. 'Unemployment among Women and the Possibility of training London Unemployed Women and Girls for War Work or moving them into the Country.'

Report of a discussion at special meeting of the Council of the Charity Organisation Society, *re* methods adopted at the relief workrooms and the results, and state of women's employment in certain provincial towns.

Cole, G. D. H. Labour in Wartime. (*Vide supra*, p. 366.)

Discusses (in Chap. viii) measures taken for dealing with unemployment amongst women.

Fabian Women's Group.[2] The War; Women; and Unemployment. Fabian Tract, No. 178. Mar. 1915. Fabian Society. 27 pp.

Makes suggestions for dealing with unemployment among women. Describes recent schemes for maintenance under training. Discusses small part, as revealed by war, taken by women in national economic life in England compared with position abroad.

Hitchcock, E. F. 'Unemployment amongst Women in Stepney,' in *Toynbee Record*, Nov. 1914 (vol. 27), pp. 15–23.

Describes nature of women's trades in Stepney, effect of war, organization of workrooms, unemployment among girls and measures taken.

——. 'The Domestic Training of Adult Women,' in *Toynbee Record*, Mar. 1915 (vol. 27), pp. 64–66.

Classifies women admitted to Stepney workroom and shows how they have been disposed of when trained. Gives outlines of scheme for training women to go out as domestic helps and nurses.

Hutchins, B. L. Women in Industry.

Vide supra, p. 482.

[1] *Vide* also under LABOUR : STATE OF EMPLOYMENT, &c., § A, 2 a, *supra*, pp. 373–82. The collection made by the Women's Work Section, Imperial War Museum Library (*vide* footnote, p. 473, *supra*) includes Reports, leaflets, press-cuttings, &c., dealing with unemployment among women and relief work.

[2] The collection of press cuttings made by the Fabian Women's Group (*vide* footnote, p. 473, *supra*) includes cuttings on unemployment and relief schemes.

Queen's 'Work for Women Fund' Committee. Some Newspaper Extracts relating to the Work and Activities of the Queen's 'Work for Women Fund'. Compiled and pubd. by P. Green, Q.W.W.F., 33 Portland Place, and printed by Harrison & Sons.[1] 1915. 63 pp.

A collection of extracts from newspapers and periodicals giving accounts of the work of the Fund and of the Central Committee on Women's Employment.

Women's Trade Union Review.

Vide infra, p. 506.

c. EMPLOYMENT IN AGRICULTURE AND FORESTRY[2]

¶ *Official Publications :*

Board of Agriculture. Agricultural Wages Board. *Wages Board Gazette*, Feb. 16, 1920 (vol. 2), pp. 83–90. 'The Employment of Women in Agriculture in England and Wales.'

Discusses course of employment of women in agriculture since beginning of war, numbers employed in the various divisions of the country and proportion which they bear to number of men employed.

—— Women, employment of, in Agriculture in England and Wales, Report of Sub-Committee on. H.M.S.O. 1919. 121 pp.

Reviews employment of women in agriculture before war and, briefly, changes during war. Discusses future prospects. Appx. contains analysis of replies from employers as to extent of women's employment during war, processes on which women engaged, degrees of success, future demand, &c. Evidence not published.

—— *Jl. Bd. Agric.* (*Vide supra*, p. 140.)

Contains, *passim*, frequent notes on employment of women on the land, their training, Women's Institutes, &c. See also articles in issues for Dec. 1915 (vol. 22), pp. 859–66; March 1917 (vol. 23), pp. 1245–52; Feb. 1918 (vol. 24), 1271–2; June 1918 (vol. 25), pp. 332–4; Oct. 1918 (vol. 25), pp. 785–841 (a Woman's Number.)

Board of Trade. Increased Employment of Women during the War, Report on. (*Vide supra*, pp. 474–5.)

Gives statistics with regard to employment of women in agriculture up to July, 1918.

—— *Labour Gazette.*

For articles containing statistics with regard to employment of women in agriculture *vide supra*, p. 475.

—— *Ibid.*, Dec. 1916 (vol. 24), pp. 447–8. 'The Work of the Women's County Agricultural Committees.'

Gives particulars as to number of Committees and their constitution and functions, work undertaken by women in agriculture, training schemes, estimate of numbers employed in Great Britain in July and Oct. 1916, compared with July, 1914.

Ireland. Dept. of Agriculture. *Journal of the Dept.*, Ap. 1916 (vol. 16), p. 481.

Gives particulars of scheme for training women in farm work. (No other reference

[1] A copy of this work may be seen at the Imperial War Museum Library, Women's Work Section.

[2] *Vide* also under AGRICULTURE, § III, B, 1, *supra*, pp. 135–64; TIMBER (AND FORESTRY), § III, J, 11, *supra*, pp. 293–302; AGRICULTURAL LABOURER, § V, B, *supra*, pp. 459–68; and WOMEN: EMPLOYMENT (GENERAL), § D, 1, a, *supra*, p. 473 n. The collection made by the Women's Work Section, Imperial War Museum Library (*vide* footnote, p. 473, *supra*) includes material relating to employment of women in agriculture and forestry, e. g. official reports, circulars and memoranda, &c. (printed or typed), reports, leaflets, &c., of organizations (such as Women's National Land Service Corps, Women's Farm and Garden Union, Women's Land Army, Federation of Women's Institutes), press-cuttings, &c.

in the *Journal* to agricultural employment of women during war).

Scotland. Board of Agriculture. Women in Agriculture in Scotland, Report of Committee on. H.M.S.O. 1920. 115 pp.

Discusses numbers of women employed, before and during war, effect of agricultural work on health, housing conditions, wages, hours and conditions of employment, systems of engagement, subsidiary industries, education, &c. Gives extracts from evidence.

—— *Ibid. Scottish Jl. Agric.*, Jan. and Ap. 1918 (vol. 1), pp. 60–1, 211–2; Ap. 1919 (vol. 2), pp. 246–7. Notes on Employment of Women on the Land.

—— *Ibid.* Jan. 1918, pp. 46–51. 'Women's Institutes.'

Describes briefly objects of institutes, their establishment abroad and in U.K. Further notes on Women's Institutes in the *Journal, passim.*

¶ *Books and Periodicals :*

Ashby, Arthur W. The Rural Problem. (*Vide supra*, p. 459.)

Discusses extent to which employment of women in agriculture has increased, wages paid, &c.

British Association for Advancement of Science. Industry and Finance. 1918. (*Vide supra*, p. 479.)

Chap. iii (pp. 146–59), 'Women Workers in Agriculture,' by E. N. Thomas. Discusses extension and organization of women's employment in agriculture during war.

Diack, W. 'Women and Farm Work,' in *E. W.*, Ap. 1916 (vol. 30), pp. 1–12.

Discusses kinds of work which could be undertaken by women and disadvantages of farm work. Gives some figures, obtained from Agricultural Unions, &c., of rise in wages for men and women agricultural labourers, in Scotland and England, during war.

Ernle, Lord. 'The Women's Land Army,' in *N. C.*, Jan. 1920 (vol. 87), pp. 1–15.

An appreciative review of the life, struggles and activities of the Women's Land Army, with some statistics of employment and wages.

Gordon, G. P. 'War-time Employment of Women in Forestry,' in *Quarterly Jl. of Forestry*, Oct. 1918 (vol. 12), pp. 266–71.

Describes experiments in employing women in forestry in Scotland, steps taken *re* training, conditions of work, degree of success, &c.

Hockin, Olive. Two Girls on the Land: War-time on a Dartmoor Farm. Edward Arnold. 1918. 158 pp.

A well-written account of the experiences of two women on a Devonshire farm.

Irwin, Margaret H. Agricultural Training for Women. Scottish Council for Women's Trades, Glasgow. 1916. 15 pp.

Discusses possible outlets for women's labour on the land. Describes briefly schemes established for training and land settlement of women and provision made in Scotland for theoretical training.

Leven, George. 'Employment of Women in Forestry,' in *Trans. Roy. Scot. Arbor. Soc.*, 1919 (vol. 33), pp. 56–8.

Gives writer's experience as to the work women can undertake.

Pott, Gladys. 'Women in Agriculture,' in *W.I.N.*, July 1916 (vol. 20), pp. 27–35.

Discusses generally conditions of employment for women in agriculture. Gives instances of wages earned (Ap. 1916). Discusses future prospects.

Sutherland, Mary. 'Women's Work in Forestry,' in *Trans. Roy. Scot. Arbor. Soc.*, 1918 (vol. 32), pp. 81–4.

Describes an experiment on a Scotch estate. *Vide* also pp. 206–7 and 208–30,

in same volume, for account of another experiment and conditions of work.

Thomas, E. N. 'Women Workers in Agriculture.' *Vide* BRITISH ASSOC. FOR ADVANCEMENT OF SCIENCE, *supra*.

Wilkins, Mrs. Roland. The Work of Educated Women in Horticulture and Agriculture. [Reprinted from *Jl. Bd. Agric.*, Sep. and Oct. 1915 (vol. 22), pp. 554–69, 616–42]. Jas. Truscott & Sons. 1915. 43 pp.

Describes existing provision for training and prospects of subsequent employment. Deals almost entirely with pre-war position.

Women's Farm and Garden Union. Reports for 1915–16, &c. 50 Upper Baker St.

Contain brief information as to work of the Union in training women for farm work, work of Women's National Land Service Corps, &c.

Women's National Land Service Corps. Reports for 1916 (Feb. to Sep.), 1916–17, 1917–18 and (final report) 1918–19. 50 Upper Baker St.

Contain accounts of the work done by the Corps in recruiting, training and placing women on the land, organization of workers for flax-harvesting, &c.

d. EMPLOYMENT IN CIVIL SERVICE[1]

℄ *Official Publications :*

Ministry of Reconstruction. Recruitment for Civil Service after the War, Committee on. Final Report. 1919, Cmd. 164.

Vide supra, p. 80.

—— Women's Advisory Committee. Women holding temporary appointments in Government departments, Report of Sub-Committee on position after the war of. 1919. Cmd. 199. 8 pp.

Discusses questions of retention in Civil Service of women holding temporary appointments, methods of recruitment and terms of service for women in future, and training of women displaced from Government departments. Compares rates now paid to male and female clerks.

Treasury. Ex-service men, appointment of, to posts in the Civil Service, Report of Committee on. H.M.S.O. 1920.

Vide supra, p. 79.

℄ *Books and Periodicals :*

Haldane, Eliz. S. 'Women and the Civil Service,' in *F. R.*, Ap. 1918 (vol. 103), pp. 593–601.

Criticizes method of war expansion of Civil Service (lack of proper selection and training, &c). Discusses remuneration and place of women in the Civil Service.

Yates, L. Keyser. 'Women and the Civil Service,' in *E. W.*, Oct. 1915 (vol. 28), pp. 1–10.

Discusses small extent to which women have replaced men in Civil Service, and low wages.

Zimmern, Dorothy M. 'The Civil Service and Women,' in *P. Q.*, Sep. 1916 (No. 8), pp. 79–103.

Discusses position as regards employment of women in Civil Service before and during war, extent of substitution, conditions of employment, difficulties encountered, &c.

[1] The collection made by the Women's Work Section, Imperial War Museum (*vide* footnote, p. 473, *supra*), includes material relating to employment of women in Government offices (e. g. numbers employed, salaries, employment of University women, &c.), some of the information being supplied specially for the Museum by the Departments.

e. EMPLOYMENT IN CLERICAL [1] AND DISTRIBUTIVE OCCUPATIONS

¶ *Official Publications :*

Home Office. Clerical and Commercial Employment, Report of Committee on conditions of, 1914–16, Cd. 8110. vol. 13. 12 pp.

Makes recommendations as to substitution of women for men, wages to be paid, organization of training.

¶ *Books and Periodicals :*

Ashford, E. B. 'Women in Distributive Trades : Displacement Study,' in *W.I.N.*, Ap. 1916 (vol. 20), pp. 9–14.

Describes generally, without statistics, the extent to which women have taken the place of men in shops, difficulties to be overcome, trade union attitude, openings in higher branches, &c.

Cole, G. D. H. and **Arnot, R. Page.** Trade Unionism on the Railways. (*Vide supra*, p. 445.)

Chap. xix (pp. 103–4), 'Women Clerks.' Discusses increase in numbers employed, organization in Railway Clerks' Association, and wage movement.

Daggett, Mabel Potter. 'The Open Door in Commerce,' in *E.W.*, Mar. 1918 (vol. 37), pp. 191–205.

Gives some account of the extent to which women are being employed in commercial houses, abroad and in England, and training schemes.

Dawson, Mrs. Boyd. 'Women War-time Clerks,' in *E. W.*, Nov. 1917 (vol. 36), pp. 104–12.

Discusses sources from which women clerks have been drawn and future prospects.

Newman, Thomas C. 'Women in Banks,' in *E. W.*, Ap. 1917 (vol. 34), pp. 42–5.

Discusses how far women have been successful as bank clerks and future prospects.

Women's Industrial News, Oct. 1916 (vol. 20), pp. 60–8. 'Women Clerks in War-Time.'

Discusses extent to which women are being substituted in different kinds of offices, wages paid, attitude of employers and future prospects. Gives particulars of thirty-nine firms investigated. Bibliography.

¶ *Trade Union Journals :*

The Clerk. *Vide supra*, p. 449.

The Co-operative Employee. *Vide supra*, p. 449.

The Railway Clerk. *Vide supra*, p. 452.

The Shop Assistant. *Vide supra*, p. 452.

The Woman Clerk. 12 Buckingham St., Strand. Monthly. 2*d.* (1st issue, Dec. 1919.)

Organ of Assoc. of Women Clerks and Secretaries.

f. EMPLOYMENT IN DOMESTIC SERVICE

¶ *Official Publications :*

Ministry of Reconstruction. Domestic Service Problem, Report of Women's Advisory Committee on. 1919, Cmd. 67. 36 pp.

Describes existing conditions as regards training, organization of domestic service, &c., and makes proposals for improvement.

—— Reconstruction Problems, No. 22. Domestic Service. H.M.S.O. 1919. 14 pp.

Discusses what conditions of domestic service should be.

[1] *Vide* also EMPLOYMENT IN CIVIL SERVICE, § d, *supra*.

¶ *Books and Periodicals :*

Butler, C. V. Domestic Service. *Vide* WOMEN'S INDUSTRIAL COUNCIL, *infra*.

Women's Industrial Council. Domestic Service. By C. V. Butler. An inquiry by W.I.N. With a supplementary chapter by Lady Willoughby de Broke. G. Bell & Sons. 1916. 148 pp.

Interesting report, compiled from over 1,200 replies from employers and servants. Deals with pre-war position. Discusses conditions of service (personal and individual aspect) and organization of the industry. Appx. on existing means of training. Bibliography.

Women's Industrial News, Jan. 1919, pp. 1–4. 'The Re-organisation of Domestic Service.'

Gives account of Women's Industrial Council's scheme for household orderly corps.

g. EMPLOYMENT IN ENGINEERING AND SHIPBUILDING[1]

¶ *Official Publications :*

Ministry of Munitions, Health of Munitions Workers Committee. Mem. No. 4. Employment of Women. 1916, Cd. 8185, vol. 23. 10 pp.

Discusses adverse conditions under which women are working and makes recommendations for improvement.

—— Munitions of War, Notes on employment of women on, with an Appx. on training of Munition Workers. Feb. 1916. Issued by Ministry of Munitions. 95 pp.

Describes, with illustrations, processes on which women are engaged. Appx. gives brief account of training schemes (for men and women).

—— Scottish Filling Factory, Official History of. (*Vide supra*, p. 235.)

Pp. 145–54, 159–84, deal with employment of women, previous occupations, methods of engagement, training, wages, welfare arrangements, &c. Table of rates of wages paid to the different grades, and advances made ; statistics of output, cost, &c., before introduction of premium bonus system and after, amount of bonus earned, &c.

National Health Insurance Commission, Medical Research Committee. A Report on the Causes of Wastage of Labour in Munition Factories employing Women. By Major Greenwood. H.M.S.O. 1918. 76 pp.

Contains tables relating to eighteen representative factories, giving numbers leaving at various ages and after varying periods of service, causes of leaving, and

[1] *Vide* also under ENGINEERING, § III, J, 3, a, *supra*, pp. 231–42 ; LABOUR : MUNITIONS, and LABOUR : CONDITIONS OF EMPLOYMENT, §§ V, A, 3 and 5, *supra*, pp. 393–8, 407–24 ; WOMEN : EMPLOYMENT (GENERAL), § V, D, 1, a, *supra*, pp. 473–86 ; and WOMEN IN TRADE UNIONS, § V, D, 2, *infra*, pp. 503–6.

The collection made by the Women's Work Section, Imperial War Museum Library (*vide* footnote, p. 473, *supra*), includes material relating to employment of women in munitions, e. g. official reports (published and unpublished), MS. accounts of women's work in various factories (written, in many cases specially for the Imperial War Museum, by representatives in the different works or officials of the Ministry of Munitions), press-cuttings, pamphlets, &c. It includes also a collection of photographs, prepared specially for the Museum by the Labour Department of the Admiralty, illustrating the work undertaken by women in shipbuilding and marine engineering during the war ; with a short introduction giving an account of the difficulties in introducing women, the kind of work undertaken by them and the extent to which they were employed ; and some statistics of numbers employed in July 1914 and Ap. 1918 and in Sep. 1917.

previous occupations, with reasoned discussion of these statistics. Inquiry relates to nearly 40,000 employees.

¶ *Books and Periodicals :*

Adamson, Rhoda H B., and **Jones, H. Palmer.** 'The Work of a Department for employing Expectant Mothers in a Munition Factory,' in *B. M. J.*, Sep. 21, 1918, pp. 309–10.

Describes scheme initiated at National Ordnance Factories, Leeds, and conditions under which expectant mothers are employed.

Brown, C. Leadley. 'Equal Pay for Equal Value,' in *E. W.*, Mar. 1919 (vol. 40), pp. 97–100.

From her experience during war, in engineering factories, writer asserts the inferiority of women to men in various respects, e. g. timekeeping.

Cassier's Engineering Monthly, Sep. 1917 (vol. 52), pp. 174–85. 'Women in Industry.'

Report of discussion at meeting of Circle of Scientific, Technical and Trade Journalists, on employment of women since war, especially in engineering. Discusses methods by which dilution is effected and measure of success attained, attitude of employers and trade unions, &c. Leading article on same subject (pp. 147–52).

Cummins, Iris A. 'The Woman Engineer,' in *E. W.*, Ap. 1920 (vol. 46), pp. 37–44.

Describes briefly effect of war on women's employment in engineering, post-war position, various higher methods of training available, attitude of engineering societies and trade unions. Discusses future prospects.

Deacon, Mary A. S. 'Thoughts on the Employment of Pregnant Women in Munition Factories,' in *Lancet*, Sep. 7, 1918, pp. 311–12.

Discusses pros and cons of employment of expectant mothers and records the effect on health of such employment at a national filling factory.

Drake, Barbara. Women in the Engineering Trades : A Problem, a Solution and some Criticisms ; being a Report based on an enquiry by a Joint Committee of the Fabian Research Dept. and the Fabian Women's Group. Fabian Research Dept. and George Allen & Unwin. 1917. 145 pp.

Reviews employment of women in England before war, steps taken with regard to dilution, extent of employment during war, processes on which women employed, re-adjustments made, output, wages, hours, &c. Shows extent to which women have replaced respectively skilled and semi-skilled and unskilled men. Discusses future outlook and makes recommendations. Alternative recommendations made by other contributors. Appx. I, 'Report on Engineering Industry, Clyde district', by H. E. R. Highton, gives account of employment of women in that district. Appx. II gives Statutory Orders *re* remuneration of women on munition work.

Englishwoman. (1) Mar. 1917 (vol. 33), pp. 213–21. 'Women in the Munition Courts.' (2) Mar. 1918 (vol. 37), pp. 218–24. 'The Amended Munitions Court.' By a Woman Assessor.

(1) Discusses some of the disadvantages under which women munition workers labour (e. g. through ignorance of the law). Argues that children under 16 should not be brought before the tribunals. (2) Describes changes effected by Munitions of War (Amendment) Act. Gives instances of cases brought before tribunal.

G., M. L. 'Over-worked Women,' in *E. W.*, Oct. 1917 (vol. 36), pp. 1–17.

Criticizes conditions of employment of women workers at Woolwich Arsenal (long hours, inadequate wages, &c.).

Jones, H. Palmer. *Vide* Adamson, Rhoda H. B., and Jones, H. Palmer, *supra.*

Monkhouse, O. E. 'The Employment of Women in Munition Factories,' in *Proc. Inst. Mech.*

Engineers, Jan.–May 1918, pp. 213–38, 266–324 (with discussions).

Discusses difficulties which had to be overcome in introduction of women, methods of training adopted, degree of efficiency attained. Several employers describe their experience.

Morgan, Ben. H. 'The Efficient Utilisation of Labour in Engineering Factories (with special reference to Women's Work),' in *Proc. Inst. Mech. Engineers*, Jan.–May 1918, pp. 239–324 (with discussions).

Describes steps taken by Ministry of Munitions to introduce dilution, difficulties encountered, training of women, degree of success. Discusses how an ideal system of dilution should have been worked. Gives summary of work undertaken by women during war.

Parsons, Lady. 'Women's Work in Engineering and Shipbuilding during the War,' in *Trans. N.-E. Coast Inst. Engineers and Shipbuilders*, 1918–19 (vol. 35), pp. 227–36 (with discussion).

Mentions some of the skilled processes performed by women. Argues that it is a waste for women to be turned out of the engineering trades.

Parsons, Rachel M. 'Engineering for Women,' in *N. R.*, Dec. 1919 (vol. 74), pp. 547–55.

Discusses progress made by women in engineering during war, giving instances of skilled work undertaken, and the present position (dismissal of women, opposition of trade unions, &c.).

Schofield, H. 'The Organization of an Instructional Factory,' in *Engineering and Industrial Management*, Feb. 14, 1919 (N.S., vol. 1), pp. 10–13.

Describes arrangements made at Loughborough Technical College for training women (and disabled ex-service men) in munition work.

Smith, Rosamund. 'Women and Munition Work,' in *W. I. N.*, Ap. 1916 (vol. 20), pp. 14–20.

Describes replacement of men by women in munitions, training, trade union organization, conditions of employment, &c. Includes some account of systems of payment and amounts earned.

Stewart, Andrew. 'The Remuneration of Male and Female Labour,' in *Engineering Review*, Sep. 1918 (vol. 32), pp. 68–9.

Discusses general question of relative efficiency of men and women, with reference especially to experience in engineering shops.

Times. *Engineering Supplement*, Ap. 1917, pp. 81–2. 'The Dilution of Labour.'

Discusses achievements of women in engineering, reasons for delay in diluting with women and necessity for proceeding with dilution at once.

—— *Ibid.*, Ap. 26, 1918, p. 83. 'Women in Filling Factories.'

Short article, praising work of women in shell-filling, and criticizing substitution of boys and men.

Yates, L. K. The Woman's Part: A Record of Munitions Work. Hodder & Stoughton. 1918. 64 pp.

Descriptive account with illustrations of the munitions work done by women (in engineering, aircraft, optical instrument making and shipyards), training, welfare arrangements, &c.

¶ *Trade Union Journal:*

The Woman Engineer. 26 George St., Hanover Sq. No. 1, Dec. 1919. Quarterly. 6*d.*

Organ of Women's Engineering Society.

h. EMPLOYMEMT ON PATROL AND POLICE WORK [1]

¶ *Official Publications :*

Home Office. Constabulary, Annual Reports of H.M. Inspector of.

Vide supra, p. 68.

—— Police Duties, employment of women on, Report [2] of Committee on. 1920, Cmd. 877. 17 pp.

Discusses need for police-women in light of war experience and nature of work for which women are suitable, and makes recommendations as to their status and powers, conditions of service, &c.

—— Police of Metropolis, Annual Reports of Commissioner of.

Vide supra, p. 69.

Ministry of Reconstruction. Subsidiary Health and Kindred Services for Women, Memorandum on. 1918. (*Vide supra*, p. 476.)

Pp. 17–19. Deals with women patrols and police (progress of the movement, duties, pay, prospects of future employment, &c.).

¶ *Books and Periodicals :*

Creighton, Louise. 'Women Police,' in *F. R.*, July 1920 (vol. 108), pp. 109–17.

Describes growth and organization and official recognition of women police during war, difficulties met and advantages of the service. Makes recommendations for future organization.

Laughton, Vera S. 'Police-women and Pioneers,' in *E. W.*, Nov. 1920 (vol. 48), pp. 89–97.

Describes organization of women police service during war, gradual official recognition and progress, and present position.

Peto, D. O. G. 'Police Work as a Profession for Women,' in *C. R.*, May 1918 (vol. 113), pp. 533–7.

Gives an account of the extent to which police-women and paid patrols are being employed, kind of work undertaken, qualifications required, salary obtained, organizations for training and obtaining appointments.

j. CONDITIONS OF EMPLOYMENT

Vide under LABOUR : CONDITIONS OF EMPLOYMENT, § V, A, 5, *supra*, pp. 407–24.

2. WOMEN IN TRADE UNIONS [3]

¶ *Books and Periodicals :*

Drake, Barbara. Women in Trade Unions. Trade Union Series, No. 6. Labour Research Dept. and Geo. Allen & Unwin. 1920. 237 pp.

Pt. I gives an account of women in trade unions before war and position during war (employment in engineering and other occupations, wages paid, attitude of men's trade unions, organization, &c.). Pt. II contains detailed survey by trades of the position as regards women's organization, in their own or in men's unions. Pt. III discusses some problems of women in trade unions, e. g. women's place in industry, obstacles to organization, types of women's organiza-

[1] The collection made by the Women's Work Section, Imperial War Museum (*vide* footnote, p. 473, *supra*), includes material relating to women patrols and police (reports of various organizations on work and training of women patrols and police, leaflets, correspondence, press-cuttings, &c.).

[2] Minutes of Evidence. 1921, Cmd. 1133.

[3] *Vide* also § D, 1, a, *supra*, pp. 473–86, and LABOUR : TRADE UNIONS, § A, 8, *supra*, pp. 441–52.

tions, trade union restrictions on female labour, &c. Useful tables given of female membership of trade unions, pre-war and 1918; analysis of principal unions, showing date when women admitted, membership, contributions, women's benefits, part taken by women in management, trade union restrictions on women's labour (normal and during war period), wages, &c.; state of employment in various industries, July 1914, Nov. 1918 and Oct. 1919.

Lowndes, M. 'The Little New Trade Union,' in *E. W.*, Ap. 1917 (vol. 34), pp. 20–33.

Describes experiment of Women's Service Bureau in training women in acetylene welding, refusal of employers to pay fair wages, formation of Women Welders' Union and award of Arbitration Tribunal.

Macarthur, Mary R. 'The Woman Trade Unionist Point of View.' *Vide* PHILLIPS, MARION, *infra*.

National Federation of Women Workers. 8th Report (for 1914–15). 46 pp. 9th Report (for 1915–17). 31 pp. 10th Report (for 1918 and 1919). 30 pp. Dilke House, Malet St.

Contain accounts of the work of the Federation.

Phillips, Marion (Ed.). Women and the Labour Party. (*Vide supra*, p. 484.)

Pp. 18–28. 'The Woman Trade Unionist Point of View,' by Mary R. Macarthur. Discusses increased employment of women during war, growth of trade unionism among women and relations with men's unions, and future position.

Women's Trade Union League. Annual Reports for 1914–15, &c. Dilke House, Malet St.

Contain information as to growth of trade union organization among women, increases of wages obtained, questions affecting women discussed in Parliament, &c.

¶ *Trade Union Journals :* [1]

The Woman Worker. National Federation of Women Workers, Dilke House, Malet St. Monthly. 1*d*. 1st issue, Jan. 1916.

Records activities of the N.F.W.W. Notes of wages movements, arbitration awards, munitions tribunals procedure, &c., &c.

The Women's Trade Union Review. Quarterly (irreg. after 1916). Women's Trade Union League.

Contains articles and notes on questions affecting women, e. g. unemployment and relief workrooms, wages and conditions of employment, Munitions Acts and working of munitions tribunals, questions in Parliament affecting women, &c.

[1] *Vide* also under EMPLOYMENT IN CLERICAL, &c., OCCUPATIONS and IN ENGINEERING, §§ D, 1, e and g, *supra*, pp. 496, 502.

VI. ARMY AND NAVY

A. NUMBERS

Vide ORGANIZATION OF MAN-POWER, § V, A, 2, d, *supra*, pp. 385–92.

B. PENSIONS AND ALLOWANCES [1]

¶ *Acts of Parliament :*

Army (Amendment) No. 2 Act, 1915. 5 & 6 Geo. V. c. 58. 4 pp.

Contains provisions regarding separation allowances and allotments of pay to soldiers' wives and dependants.

Ministry of Pensions Act, 1916. 6 & 7 Geo. V. c. 65. 3 pp.

Naval and Military War Pensions, &c. Act, 1915. 5 & 6 Geo. V. c. 83. 7 pp.

Provides for establishment of Statutory Committee and local War Pensions Committees.

Ibid. (Expenses) Act, 1916. 6 Geo. V. c. 4. 1 p.

Ibid. (Administrative Expenses) Act, 1917. 7 & 8 Geo. V. c. 14. 4 pp.

Ibid. (Transfer of Powers) Act, 1917. 7 & 8 Geo. V. c. 37. 3 pp.

Vide supra, p. 75.

Ibid. (Committees) Act, 1917. 7 & 8 Geo. V. c. 54. 1 p.

Provides for inclusion on War Pensions Committees of disabled men and of widows in receipt of pensions.

Naval Discipline (No. 2) Act, 1915. 5 & 6 Geo. V. c. 73. 4 pp.

Sec. 4 asserts liability of seamen, &c., for maintenance of their wives and families, and makes provision as to allotments of pay.

Police Reservists (Allowances) Act, 1914. 4 & 5 Geo. V. c. 34. 2 pp.

This and the following nine Acts contain provisions with regard to payment of pensions and family allowances to constables on active service.

Police Constables (Naval and Military Service) Act, 1914. 4 & 5 Geo. V. c. 79. 2 pp.

Police Constables, Irish, (Naval and Military Service) Act, 1914. 4 & 5 Geo. V. c. 84. 1 p.

Police, Irish, (Naval and Military Service) Act, 1915. 5 Geo. V. c. 32. 2 pp.

Police (Emergency Provisions) Act, 1915. 5 & 6 Geo. V. c. 41. 2 pp.

Police, Factories, &c. (Miscellaneous Provisions) Act, 1916. 6 & 7 Geo. V. c. 31. 6 pp.

Police Constables (Naval and Military Service) Act, 1917. 7 & 8 Geo. V. c. 36. 1 p.

Police (Pensions) Act, 1918. 8 & 9 Geo. V. c. 51. 2 pp.

Police Act, 1919. 9 & 10 Geo. V. c. 46. 7 pp.

Police, Constabulary and, (Ireland) Act, 1919. 9 & 10 Geo. V. c. 68. 3 pp.

War Pensions (Administrative Provisions) Act, 1918. 8 & 9 Geo. V. c. 57. 8 pp.

Ibid., 1919. 9 & 10 Geo. V. c. 53. 5 pp.

[1] The collection made by the Women's Work Section of the Imperial War Museum (*vide* footnote, p. 473 *supra*) includes printed and MS. material (reports of organizations, press cuttings, &c.) relating to pensions, training, &c. of ex-service men.

War Pensions Act, 1920. 10 & 11 Geo. V. c. 23. 5 pp.

Provides for re-transfer to other bodies of powers acquired by Ministry of Pensions, establishment of District Committees, &c.

¶ *Official Publications :*

Statutory Rules and Orders, 1914, &c. (*Vide supra*, p. 85.)

Contain Orders with regard to pay, pensions and allowances (including separation allowances) of navy, marines and naval reserve.

Admiralty. Separation Allowances to wives and children of seamen, marines and reservists borne on the books of H.M. Ships, Memorandum on. 1914, Cd. 7619, vol. 53. 4 pp.

Explains differences in position of seamen and soldiers. Gives scale of separation allowances.

—— and **War Office.** Allowances and Pensions in respect of seamen, marines and soldiers and their wives, widows and dependants, Memorandum on. 1914–16, Cd. 7662, vol. 40. 13 pp.

Gives new rates of separation allowances and pensions and actuarial report estimating cost of increased rates.

—— Allowances to dependants of deceased sailors and soldiers, Schemes for, Oct. 25 and Dec. 1, 1915. 1914–16, Cd. 7682, 8131, vol. 40. 3 pp., 3 pp.

Gives conditions under which pensions and gratuities may be granted to dependants.

Air Ministry. Pensions of airmen disabled and of families and dependants of airmen deceased in consequence of the Great War, Order for. 1920, No. 120. 18 pp.

Regulations for pensions to airmen on same scale as those to soldiers.

Committees. Military Service (Civil Liabilities) Committee, Regulations made by. 1916, Cd. 8249, vol. 17. 8 pp.

Explains circumstances under which assistance may be given to men serving with the forces to enable them to meet their liabilities, and procedure for making applications for assistance.

—— *Ibid.* Int. Report of Advisory Committee for period ending May 25, 1918. 1919, Cmd. 39. 8 pp.

Gives account of the work of the Committee and statistics of applications and grants made.

—— Naval and Military Service (Pensions and Grants), Select Committee on. Special Report and 2nd Special Report, with Minutes of Evidence and Appendices. 1914–16, No. 196, vol. 4. xv + 279 pp.—3rd Special Report. 1914–16, No. 328, vol. 4. viii pp.

Special Report recommends increase in rates of separation allowance and pensions. Gives table comparing proposed rates with existing rates. 2nd Report recommends setting up of Statutory Committee and makes proposals for its constitution. 3rd Report recommends increase in rates of pensions for officers' wives and children, and increase of disability pensions for junior officers.

—— Pensions, Select Committee on. 1st and 2nd Special Reports, with Minutes of Evidence and Appendices. Index and Digest of Evidence. 1919, No. 247, 247–Ind. lx + 590 pp.

First Report discusses and makes recommendations with regard to delay in granting pensions, statutory right to pension, Medical Boards and right to appeal, &c. Second Report contains recommendations with regard to pensions for dependants and for officers and their widows, treatment and training of disabled men, &c.

—— *Ibid.* Report with proceedings of the Committee, Minutes of Evidence and Appendices. Index and Digest of Evidence.

1920, Nos. 185, 185 – Ind. xxvi + 231 pp.

Discusses position and work done with regard to employment and training of disabled ex-service men, work of the Civil Liabilities Department, and position with regard to mercantile marine pensions, and makes recommendations.

Ministry of Pensions. Annual Reports for 1917–18 and 1918–19. 1919, Cmd. 14. 142 pp. 1920, No. 39. 90 pp.

Deal with constitution of the Ministry and legislation affecting it, central and local administration, administration of pensions, &c., treatment, training and employment of disabled men, statutory and special Grants Committees, and finance. Appendices give summaries of awards to the various classes of pensioners and Royal warrants and Orders-in-Council affecting pensions.

—— Appropriation Account, 1918–19. 1920, No. 43. 10 pp.

Comparison of sums granted to and expended by Ministry of Pensions. Accounts of other (voluntary) funds administered by the Ministry. Report of Comptroller and Auditor General on the accounts.

—— Comparative Tables showing weekly rates of War Pensions and Allowances granted by the principal Allied and Associated Powers and Dominion Governments and by Germany to men disabled and to dependants of men deceased in consequence of the Great War. 1919, Cmd. 474. 5 pp.

—— East Ham Local War Pensions Committee, Report of Mr. Marlay Samson, appointed to hold a Public Enquiry into the conduct of. 1920, Cmd. 575. 36 pp.

Discusses breaches of regulations by East Ham Committee.

—— Financial effect of the new provisions, Report by Government's Actuary (Sir Alfred W. Watson) on. 1918, Cd. 9054, vol. 12. 2 pp.

Estimate of cost to the nation of rate of pensions proposed in the new Royal Warrant and Order-in-Council.

—— Inter-allied Conference on the after-care of disabled men.

Vide infra, p. 521.

—— The Local War Pensions Committees' Handbook. H.M.S.O. 1920. 164 pp.

A codification of the circulars and instructions issued by Ministry of Pensions to Local War Pensions Committees.

—— Pensions Appeal Tribunal, Memorandum on functions and powers of. 1917–18, Cd. 8826, vol. 20. 1 p.

Describes sphere of work of Appeal Tribunal, and setting up of sub-committees to re-investigate claims of discharged, disabled men.

—— Royal Warrants for pensions of soldiers and sailors disabled and of families and dependants of soldiers and sailors deceased in consequence of the present war. 1917–18, Cd. 8485, vol. 20. 29 pp. 1918, Cd. 9040, vol. 15. 12 pp. 1919, Cmd. 457. 18 pp.

—— Royal Warrants for pensions of soldiers disabled, and of widows of soldiers deceased in consequence of former wars. 1918, Cd. 9041, vol. 15. 1 p. 1918, Cd. 9165, vol. 15. 1 p. 1920, Cmd. 1034. 2 pp.

Provide for increase of pensions, to correspond with those granted for present war.

—— Royal Warrants for retired pay of officers disabled, and for pensions of families and relatives of officers deceased, and for pensions of nurses disabled in consequence of the present war. 1917–18, Cd. 8631, vol. 20. 16 pp. 1920, Cmd. 811. 16 pp.

—— Soldiers' Pensions, 1917. H.M.S.O. 9 pp.

Provisions of Royal Warrant of 1917 explained in simple language.

—— *Recalled to Life. Réveille.*

Vide infra, p. 522.

—— *War Pensions Gazette.* Monthly. (May 1917 to June 1920). 2*d.*

Accounts of work of Local Committees and of schemes for training disabled men. Parliamentary news *re* pensions. Ministry's circulars and regulations reprinted and explained.

Royal Patriotic Fund Corporation. Annual Reports.—(Report, 1914) 1914–16, Cd. 8026, vol. 32. 87 pp. — (Report, 1915) 1914–16, Cd. 8333, vol. 14. 80 pp.—(Report, 1916) 1917–18, Cd. 8913, vol. 17. 47 pp. — (Report, 1917) 1919, Cmd. 46. 43 pp.—(Report, 1918) 1919, Cmd. 489. 47 pp.

Contain accounts of grants made to dependants of soldiers and sailors killed in the war.

War Office. Increased rates of separation allowance for wives and children of soldiers. 1914–16, Cd. 7623, vol. 39. 1 p.

Gives rates in force from 1st Oct., 1914.

—— Regulations for issue of army separation allowance, allotments of pay and family allowance during the present war. Handbook. H.M.S.O. 1916. 77 pp.

—— and **Admiralty.** *Vide* ADMIRALTY, *supra.*

War Pensions Statutory Committee. Accounts 1916–17. 1918, No. 78, vol. 15. 6 pp.

Accounts of expenditure with report of Comptroller and Auditor General thereon.

—— Draft Regulations (Pt. I) for grants to supplement pensions, grants and separation allowances payable out of public funds and for other grants and allowances. 1916, Cd. 8316, vol. 17. 5 pp.

—— Regulations, Pt. I [supplementary pensions, special (temporary) allowances and grants] and instructions for guidance of Local Committees. 1916. H.M.S.O. xx + 56 pp.

—— Regulations, Pt. II (supplementary separation allowances, &c.) and instructions for guidance of Local Committees. 1916. H.M.S.O. 43 pp. 2nd ed. 1917. 72 pp.

—— Report for 1916. 1917–18, Cd. 8750, vol. 17. 122 pp.

Describes work of Sub-Committees and setting up of local and district war pensions committees throughout the country. Discusses finance, administration of voluntary funds, treatment and training of disabled men, setting up of Ministry of Pensions, and approaching dissolution of Statutory Committee.

¶ *Books and Periodicals :*

Carnegie Endowment for International Peace. Disabled Soldiers and Sailors—Pensions and Training. *Vide* DEVINE, E. T., *infra.*

Charity Organisation Review, July 1915 (N.S., vol. 38), pp. 1–204. Conference on War Relief and Personal Service.

Pp. 1–100. Papers and discussion on methods and practice of the Soldiers and Sailors Families' Association in London, Scarborough and Portsmouth in administration of separation allowances, provision to be made for ex-service men, position as regards pensions to dependants.

—— Oct. 1916 (vol. 40), pp. 138–46. 'The War Pensions Act, 1915', by X.

Discusses the controversy with regard to administration of pensions by Statutory Committee and sub-committees instead of borough councils. Discusses working and prospects of the committees.

Codrington, Sir E. A. *Vide* Parry, E. A., and Codrington, Sir E. A., *infra.*

Devine, E. T. Disabled Soldiers and Sailors—Pensions and Training. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War. Ed. by David Kinley. Oxford Univ. Press, New York. 1919. x + 471 pp.

Includes (pp. 93–188) an account of the provision made for disabled men in Great Britain. Describes incidents leading up to the passing of the Pensions Act of 1915; gives an account of Government and private resources for disabled men up to appointment of Statutory Committee in 1916, and describes work and organization of this Committee; discusses finances for carrying out of the Act, work of Special Disablements Committee, provision for medical treatment, training and employment, and work of Ministry of Pensions. Describes at some length the schemes for revision of pensions.

Edinburgh Review, Jan. 1917 (vol. 225), pp. 139–57. 'The Work of the Soldiers' and Sailors' Families Association.'

Gives an account of the work of the Association and criticizes Government for setting up Statutory Committee.

Garside, T. H. *Vide* Hogge, J. M., and Garside, T. H., *infra.*

Hincks, W. E. 'The Work of Local Committees in administering the Naval and Military War Pensions, &c., Act, 1915,' in *C. O. R.*, July 1918 (N.S. vol. 44), pp. 3–13.

Describes work of the Soldiers' and Sailors' Families Association and later of the Local Committees in administration of allowances and pensions. (A paper read before the Inter-Allied Conference on the After-care of Disabled Men.)

Hogge, J. M. Pensions, Allowances, and Civil Liabilities. *Daily Mail.* 1916. 24 pp.

Gives instructions as to how to apply for separation allowances and pensions, and for relief from Civil Liabilities Committee and National Relief Fund.

—— and **Garside, T. H.** War Pensions and Allowances. Hodder & Stoughton. 1918. 463 pp.

Gives information as to all kinds of allowances and war pensions, treatment and training, army pay, bounties, &c. Criticizes Ministry of Pensions for not granting pensions as a right and for not setting up civilian Medical Boards.

Hope, Constance (Lady Hope). 'Justice to Officers' Wives,' in *N. R.*, Feb. 1917 (vol. 68), pp. 762–9.

Discusses, from her experience as Secretary of the Officers' Families Fund, the inadequacy of officers' pay, and urges need for separation allowances.

Kenney, Rowland. 'Soldiers' Dependants,' in *E. R.*, Dec. 1914 (vol. 19), pp. 112–8.

Criticizes muddle and delay in payment of separation allowances, and inadequacy of allowances. Quotes figures of supplemental allowances being paid by railway companies.

MacDonald, T. H. What is due to me? *Daily Herald.* 1919. 57 pp.

Gives information as to pensions for disabled men, officers, nurses, and dependants. Appx. comments—from a socialistic standpoint—on the injustice and anomalies of British pensions system.

National Review, Aug. 1915 (vol. 65), pp. 951–6. 'The Widow and the Fatherless.' *Ibid.*, June 1916 (vol. 67), pp. 629–36. 'The Government and the Navy.' By 'A Naval Correspondent'.

Discusses inadequacy of pay and pensions of naval officers and pensions to their widows.

Parry, E. A. and **Codrington, Sir E. A.** War Pensions: Past and Present. Nisbet & Co. 1918. 180 pp.

Gives an account of State action with regard to pensions before and during war

and setting up of the various committees and Ministry of Pensions. Describes in detail work of Pensions Appeal Tribunal, reporting some individual cases.

Pensions. National Labour Press. n.d. 2 pp.

Severe criticism of Government for inadequacy of pensions, stating hard cases, and comparing soldiers' pensions with political pensions.

Rathbone, Eleanor F. (Org. Sec. of Liverpool Soldiers' and Sailors' Families Association). The Muddle of Separation Allowances. n.d. For private circulation. 15 pp.

Enumerates authorities dealing with separation allowances, points out weaknesses of scheme and makes suggestions for improvement.

Soldiers' and Sailors' Families Association. Reports for 1914–15, &c.

Contain accounts of work of the Association in assisting dependants of soldiers and sailors, transfer of this work to the Statutory Committee, assistance given to ex-service men, &c.

Soldiers and Sailors Help Society. Reports for 1914, &c.

Contain accounts of work of the Society in assisting soldiers and sailors with employment, money, convalescent treatment, &c.; co-operation with Soldiers' and Sailors' Families Association; establishment of Lord Roberts' Memorial Workshops (Report for 1915), assistance given to Statutory Committee, &c.

¶ *Journal :*

The D. S. S. Bulletin. Fortnightly. 1*d.* (1st issue, Mar. 23, 1919.)

Official Organ of Nat. Federation of Discharged Soldiers and Sailors, London. Contains news of activities of the Federation in arranging conferences and obtaining pensions and employment for its members, instructions to ex-service men about pensions, &c., and news of branches of the Federation.

C. DEMOBILIZATION AND RESETTLEMENT [1]

¶ *Acts of Parliament :*

Disabled Men (Facilities for Employment) Act, 1919. 9 & 10 Geo. V. c. 22. 1 p.

Enables arrangements to be made as to employers' liability to pay compensation in respect of disabled ex-service men with a view to facilitating their employment.

Irish Land (Provision for Sailors and Soldiers) Act, 1918. 9 & 10 Geo. V. c. 82. 5 pp.

Land Settlement (Facilities) Act, 1919. Land Settlement (Scotland) Act, 1919. (*Vide supra*, p. 163.)

These and the Small Holding Colonies Act, 1916 (*infra*) contain provisions for preference to be given to ex-service men in selection of persons to be settled on land acquired for small holdings.

Sailors and Soldiers (Gifts for Land Settlement) Act, 1916. 6 & 7 Geo. V. c. 60. 1 p.

Authorizes acceptance and administration by certain Government Departments and Local Authorities of gifts for settlement or employment on the land of ex-service men.

Small Holding Colonies Act, 1916. 6 & 7 Geo. V. c. 38.

Vide under Land Settlement Acts, *supra*.

¶ *Official Publications :*

Board of Agriculture. Settlement or Employment on the Land in England and Wales of Discharged Sailors and Soldiers, Departmental Committee on. Introduction and Pt. I of Final Report.

[1] *Vide* also under PENSIONS AND ALLOWANCES, § VI, B, *supra*. For treatment and training of disabled ex-service men *vide* also under PUBLIC HEALTH, § I, B, 1, *supra*, pp. 3–18, *passim*.

Board of Agriculture (*cont.*)

Pt. II of Final Report. Minutes of Evidence and Index. 1916, Cd. 8182, 8277, 8347, vol. 12. 30 pp. 39 pp., 399 pp.

Pt. I discusses establishment of small holdings. Pt. II discusses question of minimum wage, measures to meet unemployment on demobilization, extension and development of agriculture, agricultural research, &c.

—— [**Ministry of Agriculture**]. Pembrey Farm Settlement, Report of Committee on. 1920, Cmd. 851. 6 pp.

Gives an account of the purchase of Pembrey Farm estate as colony for ex-service men and progress made, and discusses directions in which original scheme should be modified.

—— *Jl. Bd. Agric.* (*Vide supra*, p. 140.)

Journal for 1915–16 and following years contains, *passim*, notes and articles on land settlement of ex-service men.

Colonial Office. Oversea Settlement Committee, Report of, for 1919. 1920, Cmd. 573. 19 pp.

Contains account of the work of the Committee with regard to emigration of ex-service men, women, &c.

—— Settling within the Empire ex-service men who may desire to emigrate after the war, Report of Committee on measures to be taken for. 1917–18, Cd. 8672, vol. 10. 62 pp.

Discusses measures to be taken for settlement of ex-service men and dependants and women war-workers. Gives an account of schemes prepared.

Local Government Board. Employment, provision of, for Sailors and Soldiers disabled in the war, Report of Committee on. 1914–16, Cd. 7915, vol. 40. 8 pp.

Discusses policy to be adopted.

Ministry of Agriculture. *Vide* BOARD OF AGRICULTURE, *supra*.

Ministry of Labour. Building trades, Correspondence between Minister of Labour and Nat. Federation of Building Trade Operatives respecting admission of ex-service men into. 1920, Cmd. 1096. 4 pp.

Contains Government's proposals to the Federation for absorption and training of ex-service men and for application of principle of guaranteed payment for time lost owing to bad weather.

—— The King's National Roll. H.M.S.O. 1920. xvi + 310 pp.

Describes national scheme for employment of disabled ex-service men, and gives list of employers who have agreed to adopt the scheme.

—— Openings in industry suitable for disabled sailors and soldiers, Reports upon. Nos. 1 to 30. H.M.S.O. 1917–20.

Deal with conditions and prospects in the various industries, regulations issued by Ministry of Labour *re* training, wages and allowances, training schemes already in operation, &c. Give constitution of National Trade Advisory Committees.

—— Re-employment of ex-service men, Committee on. Int. Report, Aug. 12, 1920. 1920, Cmd. 951. 16 pp.

Sums up various recommendations already made from time to time with regard to training of ex-service men, land settlement, position in Ireland, &c., and draws conclusions as to methods to be adopted.

—— Training, Industrial, of ex-service men, Conditions governing. 1920, Cmd. 947. 72 pp.

Gives an account of machinery set up, facilities for training, payments to men in training and details of schemes of training for special trades.

—— *Labour Gazette* for 1920 (vol. 20).

Contains monthly articles on 'Employment [and training] of ex-service men', giving information as to numbers claiming out-of-work donation, numbers found work by Exchanges and arrangements

for training. Contains also (Nov., pp. 595–6, and Dec., pp. 666–7) articles on 'Unemployment — Remedial Measures', outlining Government policy with regard to employment of ex-service men on housing, public works, &c., and progress made with these schemes.

—— *The Month's Work.* (*Vide supra*, p. 365.)

Contains notes on employment and training of ex-service men.

—— *Weekly Report.* (*Vide supra*, p. 393.)

Contains weekly reports from the divisions as to progress made with regard to demobilization, training and employment of ex-service men.

Ministry of Pensions. Inter-Allied Conference on after-care of disabled men, held in London, May 1918, Reports of. H.M.S.O. 1918. 528 pp. Supplement to Volume of Reports. 192 pp.

Papers read by British and Allied representatives dealing with work done and recommendations for future work in connexion with pensions and allowances, training and treatment. British papers include accounts of the pensions provisions, work of Local War Pensions Committees, work achieved by Ministry of Labour in connexion with employment, &c. Supplement contains verbatim reports of discussions on each paper and some further papers (foreign) not included in the volume of Reports.

—— Inter-Allied Conference for study of professional re-education and other questions of interest to soldiers and sailors disabled by war, held at Paris, May 1917, Report on. By Sir A. Griffith Boscawen. H.M.S.O. 1917. 47 pp.

Deals mainly with steps taken abroad, especially in France, for treatment and training of disabled, comparing with English methods.

—— Openings in agriculture suitable for disabled sailors and soldiers, Report upon. H.M.S.O. 1918. 6 pp.

Discusses openings in various branches of agriculture, training needed, allowances, &c.

—— *Recalled to Life.* No. 1, June 1917. No. 2, Sep. 1917. No. 3, Ap. 1918. 452 pp. (numbered consecutively). Continued as *Réveille* (*vide infra*).

Contents similar to those of *Réveille* (*q. v.*), but without appendices.

—— *Réveille.* Ed. by John Galsworthy. No. 1, Aug. 1918. No. 2, Nov. 1918. No. 3, Feb. 1919. 549 pp. (numbered consecutively). H.M.S.O. 2*s.* 6*d.*

A quarterly review devoted to the disabled sailor and soldier. Contains articles, by Government officials and others, dealing with treatment and training of disabled men, numbers trained, land settlement, work of local War Pensions Committees, pensions administration, &c. Apps. to each volume contain statistics of numbers pensioned for disability since outbreak of war; table of occupations and disabilities to which they are suited, with maximum period of training, compiled from records of men who have finished training; and list of training courses under Ministry of Pensions.

Ministry of Reconstruction. Reconstruction Problems. H.M.S.O.

No. 3. The Demobilization and Resettlement of the Army. 1918. 19 pp.

No. 7. Guide to Work and Benefits for Soldiers and Civil War Workers. 1918. 15 pp.

No. 9. Naval Demobilization. 1918. 16 pp.

No. 12. The Settlement of Officers. I. Army and R.A.F. 1919. 26 pp. II. Navy. 1919. 26 pp.

No. 20. Land Settlement. 1919. 13 pp.

No. 27. Officers' Guide to Civil Careers. 1919. 61 pp.

Describe Government schemes for demobilization and resettlement. No. 12 (I) gives brief account of action taken

Ministry of Reconstruction (*cont.*)

before Armistice in resettlement of unfit and invalided officers. No. 27 discusses difficulties in the way of finding employment for ex-officers and openings at home and overseas, describes official machinery for finding employment, training schemes, financial benefits, &c. Gives list of voluntary organizations for helping officers.

—— Women's Advisory Committee. Co-ordination of Vocational training of women, Int. Report of Sub-Committee on. H.M.S.O. 1918. (*Vide supra*, p. 476.)

Pp. 7–8, Memorandum on 'The relations of the Ministry of Labour to the training of disabled men'. Gives short account of steps taken by Ministries of Labour and Pensions to arrange for training of disabled men.

Treasury. Ex-service men, appointment of, to posts in Civil Service, Report of Committee on. H.M.S.O. 1920.

Vide supra, p. 79.

—— Ex-service men, Statements relating to employment of, in Government offices. 1920.

Vide supra, p. 79.

—— Recruitment of Civil Service after the war, Committee on. 1st, 2nd, and 3rd Int. Reports. 1919, Cmd. 34, 35, 36. (*Vide supra*, p. 80.)

Deal with relaxation in case of ex-service men of normal conditions of health certification for positions in Civil Service, methods of recruitment, &c. 2nd report gives brief account of existing official agencies for finding civil employment.

War Office. Army Education Circulars. No. 3. 1918. 10 pp. No. 4. 1918. 8 pp.

No. 3 gives particulars of modes of entry into various professions and deals with probable state of various industries after the war. No. 4 deals with trade openings and composition and functions of Local Advisory Committees.

—— Army Estimates for 1920–21, Memorandum relating to. 1920, Cmd. 565. 20 pp.

Gives (p. 8) number of officers and men demobilized since Armistice and number remaining in Army to be demobilized.

¶ *Books and Periodicals :*

Acland, T. D. 'The Future of the Tuberculous Soldier,' in *N. C.*, Ap. 1919 (vol. 85), pp. 706–18.

Describes and criticizes various schemes for settlement on the land, showing difficulties to be met and making suggestions for overcoming them.

Cannes, Jean, &c. Physical and Occupational Re-education of the Maimed. Trans. by W. E. Castle. Baillière, Tindall & Cox. 1918. 195 pp.

An account of various forms of re-education in France. Apps. I–III (pp. 161–88) contain accounts of Lord Roberts's Memorial Workshops by Margaret Sale, life at St. Dunstan's by Sir Arthur Pearson, and Roehampton Hospital by Dudley B. Myers.

Charity Organisation Review, July 1918 (vol. 44), pp. 23–6. 'The Training of Disabled Soldiers.'

Report of an address by Major Mitchell at a meeting of C.O.S. Council. Gives an account of work being done by Ministry of Pensions in training the disabled.

Charnwood, Lord. 'Technical Training for Disabled Soldiers and Sailors,' in *Jl. Roy. Soc. Arts*, Dec. 14, 1917 (vol. 66), pp. 68–78 (with discussion).

Contains some account of what is being done in the way of training, extent to which men desire training, and schemes for future.

Committee, Joint, on Labour Problems after the War. The Problem of Demobilization. Labour Party. 1916. 8 pp.

Discusses measures which should be taken for resettlement of ex-service men

and civilians, and makes proposals for reform of Employment Exchanges.

Currie, James. 'Industrial Training.'

Vide supra, p. 397.

Hutt, C. W. The Future of the Disabled Soldier. T. Fisher Unwin. 1917. x + 199 pp.

Describes methods adopted for restoring disabled soldiers to health and industrial efficiency, methods of training abroad and in U.K. and machinery for obtaining employment.

Labour Year Book, 1919, pp. 228–32. 'The Training and Employment of disabled men.'

Gives short account of official machinery for dealing with training and employment of disabled men, and of the organizations of discharged soldiers and sailors.

Maurice, F. 'The Employment of Ex-service Men,' in *N. C.*, Oct. 1920 (vol. 88), pp. 670–8.

Reviews work already accomplished in this connexion and discusses various difficulties to be overcome.

Pearson, Sir Arthur. Victory over Blindness: How it was won by the men of St. Dunstan's and how others may win it. Hodder & Stoughton. 1919. 322 pp.

A description of life at St. Dunstan's, including an account of trades taught to the blind soldier.

Pilkington, L. G. 'The Employment in the Surveyor's Profession of Men Disabled in the War,' in *Trans. Surv. Inst.*, Jan. 14, 1918 (vol. 50), pp. 81–118 (with discussion).

Describes work carried on by special employment exchanges of Y.M.C.A. for disabled ex-service men.

Round Table, Mar. 1919 (No. 34), pp. 359–64. 'The United Kingdom. II. Demobilisation and Resettlement.'

Discusses steps taken by Government to deal with the situation on signing of Armistice, as regards military and civil workers.

Shairp, L. V. 'The Re-education of Disabled Soldiers,' in *Ed. R.*, Jan. 1917 (vol. 225), pp. 119–38.

Gives brief account of experiments that have been made in England, France and Canada, with regard to industrial training, &c., of disabled.

Soldiers and Sailors Help Society. Annual Reports of Lord Roberts's Memorial Fund and Workshops for disabled soldiers and sailors, for 1916, 1917–18, 1919.

Give accounts of the work carried on in the workshops.

Times Engineering Supplement, Oct. 1917, pp. 201–2. 'Employment of Disabled Men.'

Discusses prospects for employment of disabled men, with special reference to engineering industry. Describes training provided at Roehampton Hospital and London Polytechnic, and provisions for State aid. Discusses need for co-operation of employers and workers and for moral re-education of workers returning to engineering.

Village Centres Council for Curative Treatment and Training of Disabled Men. First Annual Report for year ending Oct. 31, 1919. 42 pp. 51 Lincoln's Inn Fields.

Gives an account of treatment and training of disabled in farming and rural industries carried out at Enham.

Worsfold, W. Basil. The War and Social Reform. John Murray. 1919. viii + 248 pp.

Pp. 75–87. Describes measures taken to promote land settlement of ex-service men at home and abroad.

Wright, Ronald. 'The Jobs Ex-Soldiers are ready to take,' in *System*, Aug. 1920 (vol. 38), pp. 171–2.

Describes training given in instructional factories under Ministry of Labour for ex-service men.

VII. FINANCE

A. GENERAL [1]

¶ *Acts of Parliament :*

Government War Obligations Act, 1914. 5 Geo. V. c. 11. 2 pp.

Provides that obligations such as advances on bills of exchange, insurance schemes, loans to Allied Powers, &c., shall be met if necessary out of the Consolidated Fund.

Ibid., 1915. 5 & 6 Geo. V. c. 96. 2 pp.

Ibid., 1918. 8 & 9 Geo. V. c. 28. 1 p.

Ibid., 1919. 9 & 10 Geo. V. c. 44. 1 p.

Postponement of Payments Act, 1914. 4 & 5 Geo. V. c. 11. 1 p.

¶ *Official Publications :*

Manuals of Emergency Legislation. Financial Edition, comprising all the Acts of Parliament, Proclamations, Orders, &c., passed and made in consequence of the war and specially affecting financial interests to June 4, 1915. Ed. by Alex. Pulling. H.M.S.O. v + 205 pp.

—— Defence of the Realm Manual. 4th and 6th editions, revised to May 31, 1917 and Aug. 31, 1918 respectively. (*Vide supra*, p. 84.)

4th edition contains (pp. 62–3) regulations *re* Treasury and foreign securities and (pp. 368–448) all Orders and notices of Treasury *re* taking possession of securities, in force May 31, 1917. 6th edition contains (p. 83 n.) note referring to issue of other Orders, to appear in a new financial edition (not published). *Vide* also Manual of Emergency Legislation to Sep. 30, 1914 and Suppts. Nos. 2 and 3 (*supra*, pp. 83–4) for Proclamations *re* Bank holidays, County Courts rules and fees under Postponement of Payments Act, &c.

Bank of England. Advances to Government, Applications for, authorized by Parliament, Jan. 5, 1914 to Jan. 5, 1915. 1914–16, No. 123, vol. 38.—(*Ibid.*, 1916–17 and 1917–18) 1917–18, Nos. 24 and 176, vol. 19. — (*Ibid.*, 1918–19) 1919, No. 27.—(*Ibid.*, 1919–20) 1920, No. 24. 5 pp. each.

Committees. National Expenditure, Reports of Select Committee on.

Vide supra, pp. 87–8.

—— Public accounts, Reports of Committee of.

Vide supra, p. 88.

Development Commission. Abstract Accounts of receipts into and issues out of the Development Fund, with report of the Comptroller and Auditor-General. — (Acct., 1914–15) 1914–16, No. 425, vol. 38. — (Acct., 1915–16) 1917–18, No. 20, vol. 19.—(Acct., 1916–17) 1918, No. 9, vol. 15.—(Acct., 1917–18) 1919, No. 25.—(Acct., 1918–19) 1920, No. 4. 8 pp. each.

Ireland. Commissioners of Public Works in Ireland. Annual Reports. — (Report, 1914–15) 1914–16, Cd. 8119, vol. 34. 71 pp.—(Report, 1915–16) 1916, Cd. 8414. vol. 15. 44 pp. — (Report, 1916–17) 1917–18, Cd. 8781, vol. 18. 40 pp. — (Report, 1917–18) 1918, Cd. 9135, vol. 12. 34 pp. — (Re-

[1] *Vide* also COMMERCE AND INDUSTRY: GENERAL PROGRESS, § III, A, 1, *supra*, pp. 99–108.

port, 1918–19) 1919, Cmd. 348. 34 pp. — (Report, 1919–20) 1920, Cmd. 1071. 34 pp.

Post Office. Report of Postmaster-General for 1914–15. 1914–16, Cd. 7955, vol. 32. 131 pp. — Report for 1915–16. 1916, Cd. 8424, vol. 14. 70 pp.

Include, in addition to report on normal Post Office services, a brief account of war measures (e. g. issue of Post Office orders as currency), amounts received for war loan, &c.

Treasury. Capital Issues, Regulation substituted for Regulation 30 F. of the Defence of the Realm Regulations as to. 1919, Cmd. 97. 2 pp.

—— Capital Issues Committee, Treasury Instructions to. 1919, Cmd. 99. 2 pp.

—— Consolidated Fund. Abstract Accounts, with report of the Comptroller and Auditor-General. — (Acct., 1914–15) 1914–16, No. 400, vol. 38. — (Acct. 1915–16) 1916, No. 145, vol. 17. — (Acct., 1916–17) 1918, No. 177, vol. 19. — (Acct., 1917–18) 1919, No. 24. — (Acct., 1918–19) 1920, No. 12. 8 pp. each.

—— Expenditure, total (other than out of loans), under certain Acts during years ended Mar. 31, 1891, 1901, 1911, and 1919, and total number of persons directly benefiting from the expenditure for 1919, Return showing. 1920, No. 160. 11 pp.

Shows expenditure in U. K. on National Insurance (Health and Unemployment), War Pensions, Old Age Pensions, Education, Public Health, Housing, Poor Relief, Unemployment, Lunacy, &c.

—— Finance Accounts of U.K. —(Accts., 1914–15) 1914–16, No. 273, vol. 38. 101 pp. — (Accts., 1915–16) 1916, No. 93, vol. 17. 91 pp. — (Accts., 1916–17) 1917–18, No. 102, vol. 19. 87 pp. — (Accts., 1917–18) 1918, No. 82, vol. 15. 85 pp. — (Accts., 1918–19) 1919, No. 121. 83 pp. — (Accts. 1919–20) 1920, No. 124. 91 pp.

Contain tables of receipts on all heads of revenue, Exchequer issues, statements *re* National Debt, loans guaranteed by British Government, &c.

—— Financial Statements. — (Statement for 1914–15) 1914–16, No. 2 and Cd. 7747, vol. 38. 1 p., 5 pp. — (*Ibid.*, 1915–16) 1914–16, Nos. 222 and 344, vol. 38. 8 pp., 8 pp. — (*Ibid.*, 1916–17) 1916, No. 50, vol. 17. 11 pp. — (*Ibid.*, 1917–18) 1917–18, No. 75, vol. 19. 11 pp. — (*Ibid.*, 1918–19) 1918, No. 46, vol. 15. 11 pp. — (*Ibid.*, 1919–20) 1919, No. 88 and Cmd. 377. 10 pp., 7 pp. — (*Ibid.*, 1920–1) 1920, No. 70. 19 pp.

—— [Moratorium, &c.]. Return of papers relating to assistance rendered by Treasury to Banks and Discount Houses since outbreak of war . . . advisability of continuing or ending Moratorium and nature of banking facilities now available. 1914, No. 457, vol. 50. 6 pp.

Mostly reprinted in Manual of Emergency Legislation, Financial edition, *vide supra*, p. 527.

—— [*Ibid.*]. Copies of Postponement of Payments Act and Proclamations issued thereunder, (Aug. & Sep. 1914). 1914–16, Cd. 7633, vol. 54. 10 pp.

Reprinted in Manual of Emergency Legislation, Financial edition.

—— [*Ibid.*]. Further papers relating to the measures taken by Government for sustaining credit and facilitating business (in continuation of Cd. 7633 and No. 457). 1914–16, Cd. 7684, vol. 55. 10 pp.

Treasury (*cont.*)

Reprinted in Manual of Emergency Legislation, Financial edition.

—— Revenue and Expenditure. Returns showing (1) amount contributed by England, Scotland, and Ireland respectively to revenue, (2) expenditure on English, Scottish, and Irish services, and (3) balances of revenue which are available for Imperial expenditure. — (Return, 1914–15) 1914–16, No. 309. vol. 38.—(Return, 1915–16) 1916, No. 119, vol. 17.—(Return, 1916–17) 1917–18, No. 134, vol. 19.—(Return, 1917–18) 1918, No. 106, vol. 15.—(Return, 1918–19) 1919, No. 163.—(Return, 1919–20) 1920, No. 245. 16 pp. each.

—— Revenue, Imperial (collection and expenditure) (Great Britain and Ireland), Returns relating to. — (Return, 1914–15) 1914–16, No. 308, vol. 38.—(Return, 1915–16) 1916, No. 118, vol. 17.—(Return, 1916–17) 1917–18, No. 133, vol. 19.—(Return, 1917–18) 1918, No. 105, vol. 15.—(Return, 1918–19) 1919, No. 162.—(Return, 1919–20) 1920, No. 239. 22 pp. each.

Gives details *re* revenue as collected, estimated true revenue, expenditure and contributions to Imperial services, for Ireland and Great Britain.

—— Treasury Bills, Treasury Minute, Ap. 13, 1915, prescribing further regulations relating to the preparation, issue and cancellation of. 1914–16, No. 199, vol. 38. 4 pp.

—— Vote of Credit Issues, Treasury Minutes, Aug. 20, 1914 and Nov. 22, 1915, as to mode of accounting for. 1914, No. 458, vol. 50. 5 pp. 1914–16, No. 392, vol. 38. 4 pp.

—— War Department expenditure, Treasury Minutes, Dec. 8, 1914 and Mar. 29, 1915, relative to, and Treasury Minute, Jan. 29, 1915, relative to Admiralty and War Department contracts for munitions of war. 1914–16, No. 325, vol. 38. 4 pp.

Deal with Treasury control.

¶ *Books and Periodicals :*

Allen, J. E. 'Some Changes in the Distribution of the National Income during the War,' in *Jl. Roy. Stat. Soc.*, Jan. 1920 (vol. 83), pp. 86–126.

Vide supra, p. 73.

Bogart, E. L. Direct and Indirect Costs of the Great World War. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War. Ed. by David Kinley. Oxford Univ. Press, New York. 1919. vi + 338 pp.

Contains detailed statistical accounts of the war revenue and expenditure of Great Britain and the other great belligerent States, year by year, with explanations and comments, and summaries comparing the direct and indirect costs of the war to the nations concerned, and some account of the contributions of Great Britain, Canada and U.S.A. to war relief.

Bowley, A. L. The Division of the Product of Industry. Clarendon Press, Oxford. 1919. 60 pp.

Vide supra, pp. 73–4.

—— The Change in the Distribution of the National Income 1880–1913. Clarendon Press, Oxford. 1920. 27 pp.

Vide supra, p. 74.

Brand, R. H. The Financial and Economic Future. National War Savings Committee. 1919. 23 pp.

Describes briefly changes brought about by war (i. e. rise in prices and wages,

increase of currency and of banking deposits, growth of foreign debts and reduction of capital), and shows how a false appearance of prosperity has arisen. Discusses probable difficulties of post-war finance and principles to be adopted.

British Assoc. (1) Credit, Industry and the War. (2) Labour, Finance and the War. (3) Industry and Finance. (4) *Ibid.* Supplementary volume. (*Vide supra*, p. 479.)

(1) Chap. IV (pp. 193–253); (2) Chap. IV (pp. 214–328); (3) Chap. V (pp. 187–356); and (4) Chap. II (pp. 106–50), deal with 'The Effects of the War on Credit, Currency and Finance'. Describe in some detail the war financial measures (issue of currency notes, borrowing, taxation, &c.) and discuss effects on credit, prices, banking position, foreign exchanges, &c. Discuss questions of taxation *versus* borrowing, war economy, inflation, &c.

Carnegie Endowment. Direct and Indirect Costs of the Great World War. *Vide* Bogart, E. L., *supra*.

—— Financial History of Gt. Britain. *Vide* McVey, F. L., *infra*.

Crammond, Edgar. 'Economic Aspects of the War,' in *Q. R.*, Oct. 1914 (vol. 221), pp. 517–40.

Describes economic results of previous great wars, relates events of early days of war as regards London money market, discusses probable effects on trade, &c.

—— 'The Economic Position of the Allies,' in *Q. R.*, July 1915 (vol. 224), pp. 193–222.

Pp. 203–23 deal with Great Britain. Writer describes economic and financial condition at outbreak of war, reviews war expenditure and revenue, and discusses effect of war on foreign trade and on finance and means for meeting cost of war.

—— 'British Finance during and after the War,' in *Q. R.*, July 1918 (vol. 230), pp. 190–213.

Discusses increase of productive power of U. K. during war and war revenue and expenditure, and estimates post-war debt per head of population. Discusses methods of taxation for meeting post-war debt.

—— 'The Economic Outlook,' in *Jl. Inst. Bankers*, May 1919 (vol. 40), pp. 140–56.

Discusses, briefly, effect of war on commodity prices in England, course of rise in wages and cost of living. Estimates national wealth of U.K. and increase in productive power.

—— 'The Economic Position of Great Britain,' in *Q. R.*, Oct. 1919 (vol. 232), pp. 489–518.

Discusses increase in prices, wages, paper money, National debt, since 1914, present position with regard to foreign trade, revenue and expenditure, &c.

Davenport, E. H. Parliament and the Taxpayer. With an introduction by Herbert Samuel. Skeffington & Son. 1918. xviii + 256 pp.

Surveys the history of Parliamentary control over national expenditure, and describes and criticizes the present system; shows how fiasco of Parliamentary control of expenditure has been completed by war conditions. Discusses reforms proposed by Select Committee on National Expenditure, 1917–18, and ideal Parliamentary control.

Edinburgh Review, July 1915 (vol. 222), pp. 1–21. 'The Outlook for Capital.'

Discusses question of post-war price of capital. Explains cause of inflated bank balances after outbreak of war. Discusses method of paying for war and extent of saving in Great Britain.

—— *Ibid.*, pp. 204–24. 'Economic Endurance.' (Editorial article.)

Deals, critically, with need for Government economy, saving and increased taxation.

Financial and Commercial Review for 1916, &c. A continuation of the *Financial Review* (last published for 1913). Swiss Bank Corporation.

Contains a review of the chief foreign

exchange movements, money markets and banking developments during past year.

Fisk, Harvey E. English Public Finance. Bankers Trust Co., New York. 1920. 241 pp.

A short history of English public finance methods and the state of the National debt from 1066. Pt. I, Chaps. I–VI (pp. 1–53), deal with the period 1914–20; describe financial measures adopted during war, war loans, war savings campaign, part played by banks in financing war, state of liabilities each year *versus* assets, state of National debt in 1920; discuss prices and inflation. Chaps. VII *et seq.* trace history of English public finance from 1066 onwards, and make deductions regarding general principles and causes underlying the National debt. Part II gives short history of growth of Bank of England and Scottish and Irish banks.

Foxwell, H. S. Papers on Current Finance. Macmillan & Co. 1919. xvii + 280 pp.

A collection of articles reprinted from various periodicals. Contains, in addition to articles written before the war, Papers Nos. 1 to 4, 'British War Finance', 'Ways and Means', 'The Nature of the Industrial Struggle', 'The Financing of Industry and Trade', reprinted from *Econ. Jl.*, Dec. 1915 (vol. 25), pp. 547–64, Mar. 1916 (vol. 26), pp. 1–19, Sep. and Dec. 1917 (vol. 27), pp. 315–29, 502–22; Paper No. 7, 'Inflation', a paper read before the Inst. of Actuaries, Mar. 26, 1917; and Appx. No. 2, 'Fixed Exchange within the Empire', reprinted from *Bankers' Magazine*, Feb. 15, 1918 (vol. 105), pp. 374–5. Discuss financial expedients adopted at war crisis, British financial resources and methods of borrowing, modern developments with regard to financing of industry and trade, British banking methods, with a criticism on their relation to industry, inflation, &c.

George, D. Lloyd. Through Terror to Triumph: Speeches and pronouncements . . . since the beginning of the war. Ed. by F. L. Stevenson. Hodder & Stoughton. 1915. xii + 187 pp.

Contains (pp. 16–17, 18–29, 30–45, 65–74, 94–6) speeches in House of Commons, &c., with regard to economy, the budget, steps taken by Treasury to protect British finance, and financial arrangements between Great Britain, France and Russia.

Gibson, A. H. 'War Finance,' in *Bankers' Magazine*, Jan. 1916 (vol. 101), pp. 43–54.

A critical analysis of the methods by which war has been financed, with suggestions for future.

Gould, F. H. Carruthers. *Vide* Poley, A. P., and Gould, F. H. Carruthers, *infra*.

Hirst, F. W. The Political Economy of War. J. M. Dent & Sons. 2nd ed. 1916. xii + 344 pp.

Gives a critical account of financial measures adopted at war crisis. Discusses and compares cost of war to Great Britain and the other belligerent States and methods by which they are meeting it. Criticizes wasteful policy of British Government and indicates future difficulties.

Holden, Sir Edward H. (1) 'The War and the World's Money Markets.' Suppt. to *Statist*, Jan. 31, 1915 (vol. 83). 8 pp. — (2) 'Great Britain's Financial Strength.' *Ibid.*, Jan. 27, 1917 (vol. 89). 12 pp. — (3) 'Call for the Repeal of the Bank Act.' *Ibid.*, Feb. 2, 1918 (vol. 91). 12 pp.—(4) 'Cost of the War to America, Britain, and Germany.' *Ibid.*, Feb. 1, 1919 (vol. 93). 12 pp.

Reports of speeches made at annual general meetings of London Joint City and Midland Bank. (1) Describes financial measures taken after outbreak of war, progress of banking, and present position. (2) Reviews manner in which credit has been created during war. (3) Compares British with German and American banking and war finance systems and shows need for repeal of Bank Act. (4) Estimates cost of the war, advocates repeal of Bank Act, criticizes frequent Bank rate changes and financial organization of Bank of England, discusses future note issues, &c.

Investor's Blue Book. Ed. by G. J. Holmes. Annual. *Money Market Review and Investor's Chronicle.*

Gives particulars of Government and municipal issues (price, dividend paid, description and conditions) and Joint Stock Companies (particulars of balance sheets, dividends paid, profit and loss accounts, with brief survey of past development and opinion as to future prospects and worth). Gives highest and lowest prices of securities, for current and past year.

Investor's Four Shilling Year Book. *Financial Review of Reviews.*

Gives particulars of issues of municipal bodies and of companies (date of registration, particulars of securities offered, summary of latest balance-sheet and profit and loss account, record of highest and lowest dividends paid in recent years, &c.).

Jennings, H. J. 'An Economic Stocktaking,' in *Q. R.*, Jan. 1916 (vol. 225), pp. 73–91.

Discusses generally the financial position, apparent prosperity, state of employment, taxation, &c.

—— 'The Nation's Balance Sheet,' in *F. R.*, May 1916 (vol. 99), pp. 894–906.

Discusses the 1916–17 Budget, showing increase of national debt per head since the war and criticizing incidence of proposed tax on incomes.

—— 'After the War Finance,' in *F. R.*, June 1918 (vol. 105), pp. 894–902.

Discusses Budget speech, criticizing continuous wastefulness in State and private expenditure. Discusses war debts and cost of living. Criticizes various points in the Budget.

Jones, J. H. 'Financial Theory and the Distribution of War Costs,' in *P. Q.*, Sep. 1916 (No. 8), pp. 27–54.

Discusses methods for raising necessary funds, taxation, loans and inflation.

Keynes, J. M. 'War and the Financial System, August 1914,' in *Econ. Jl.*, Sep. 1914 (vol. 24), pp. 460–86.

Describes and comments on financial situation at outbreak of war and steps taken to meet it.

Laughlin, J. L. Credit of the Nations. P. S. King & Son, London. C. Scribner's Sons, New York. 1919. xii + 406 pp.

Compares war finance policy of England, France, Germany, and U. S. A. Criticizes manner in which English banks met war crisis and explains how Great Britain was able to maintain her gold standard. Shows how the collapse of home trade affected the monetary situation. Discusses cause of rise in prices, attributing it not to inflation but to depreciation of money and payment of high wages. Describes factors affecting foreign exchanges, measures taken by Government and their effect. Discusses borrowing methods of Government, ratio of loans to taxes.

Lawson, W. R. British War Finance, 1914–15. Constable & Co. 1916. xii + 381 pp.

Presents a detailed and critical history of the effect of the war on all branches of finance, relief and emergency measures taken and Treasury methods of raising credit. A chapter on the incidence of taxation.

McVey, Frank L. Financial History of Great Britain, 1914–18. Carnegie Endowment for International Peace. Preliminary Economic Studies of the War, ed. by David Kinley. Oxford Univ. Press, New York. 1918. iv + 101 pp.

A useful history. Reviews briefly financial and business conditions in Great Britain before the war. Describes financial difficulties caused by the war, Government measures taken to meet them and results. Gives a complete history of the various war budgets, average daily costs of the war, proportion of revenue to expenditure, &c. Describes war loans and other financial devices with results. Explains the foreign exchange difficulties and the dollar security scheme. Explains British war taxation policy and discusses inflation and other war costs, e. g. rise in prices, pensions, &c. Discusses probable future policy.

Mallock, W. H. 'War Expen-

diture of the U.K.,' in *F. R.*, Aug. 1915 (vol. 98), pp. 258–69.

Discusses the composition and amount of the present income of U.K., and the relative costs to the country of the present and Napoleonic wars.

Money, Sir Leo Chiozza. 'Paying for the War,' in *E. R.*, Aug. 1915 (vol. 21), pp. 51–67.

Discusses financial situation, measures taken, need for economy, &c.

Noyes, A. D. Financial Chapters of the War. Macmillan & Co. 1916. xi + 255 pp.

Gives a clear and simple comparative account of the financial events at outbreak of war in all the great belligerent States and in U. S. A. Describes causes leading up to and results of emergency measures, war finance methods, inflation, foreign exchange movements. Draws conclusions as to the respective post-war positions of the U. S. A. and Great Britain, &c.

Oldham, C. H. 'British Finance of the War,' in *Jl. Stat. and Social Inquiry Soc. of Ireland*, Sep. 1917 (Pt. 96, vol. 13), pp. 317–28.

Gives a detailed account of methods of war finance in Great Britain, describing expenditure incurred and results of budget and loan yields. Draws attention to disquieting features, e. g. continuous advance in prices, excess of imports over exports, &c.

—— 'The Public Finances of Ireland,' in *Econ. Jl.*, Mar. 1920 (vol. 30), pp. 60–73.

Explains changes produced by the war in the revenue and expenditure of Ireland. Discusses state of Irish solvency, effects of taxation, &c.

Our Financial Policy and the Rate of Interest. [Anon.]. P. S. King & Son. 1917. 60 pp.

Reviews financial policy of Government during war with regard to loan and bank rates of interest. Examines its aims and effects in connexion with saving, the foreign exchanges, the currency question and general principles.

Paish, Sir Geo. 'War Finance,' in *Jl. Roy. Stat. Soc.*, May 1916 (vol. 79), pp. 267–99 (with discussion).

Gives an optimistic account of financial strength of U.K. Shows increase in national income due to rise in wages, manner in which consumption of U.K. has been maintained and imports paid for and how the nation has met almost its entire expenditure out of income. Gives a detailed account of war expenditure and of the estimated revenue from taxation.

Paton, W. A. The Economic Position of the U.K., 1912–18. *Vide* U.S.A., *infra*.

Pigou, A. C. The Economy and Finance of the War. J. M. Dent & Sons. 1916. 96 pp.

Examines critically the real costs of war, dealing with some fallacies concerning their nature, the effect of the manner of individual economy on these costs and of Government interference in this respect. Explains effect of war on foreign exchange movements and makes suggestions for influencing them. Examines policy of taxation *versus* loans.

Poley, A. P. and **Gould, F. H. Carruthers.** The History, Law and Practice of the Stock Exchange. Sir I. Pitman & Sons. 3rd ed. 1920. xvi + 368 pp.

Gives a short history of the Stock Exchange and describes its present laws and practice. Illustrated throughout by reference to judicial decisions, especially recent ones. Reproduces current rules but omits temporary war rules.

Political Quarterly, Mar. 1916 (No. 7), pp. 148–54 and Sep. 1916 (No. 8), pp. 119–25 and 135–8. 'Central Administration: Public Finance,' and 'Parliament: Finance'.

Reviews financial position, budgets, loans, &c.

Round Table, Sep. 1920 (vol. 10), pp. 836–48. 'U.K. The Financial and Economic Situation.'

Describes state of finance and industry and future outlook. Discusses means for reducing Government expenditure, inadvisability of increasing taxation and of further borrowing.

Schuster, E. J. The Effect of War and Moratorium on Commercial Transactions. Stevens & Sons. 2nd ed. 1914. viii + 166 pp.

Explains the laws and regulations affecting commercial transactions in war time, analysing and discussing especially those put into force in present war.

Scott, W. R. Economic Problems of Peace after War. University Press, Cambridge. Vol. 1. 1917. xii + 122 pp. Vol. 2. 1918. xii + 139 pp.

Discusses effect of war on industry, saving and finance, and their probable orientation in the light of recent experience and general principles. Deals also with the question of a levy on capital.

Sonne, H. C. The City: Its Finance July 1914 to July 1915 and Future. Effingham Wilson. 1915. x + 208 pp.

Gives a concise account of effect of war on British finance and measures taken, noting their results. Describes position with regard to gold and the foreign exchanges and considers future difficulties in connexion with England's international financial status.

Spicer, E. E. The Money Market in relation to Trade and Commerce. H. Foulkes Lynch & Co. 2nd ed. 1920. 105 pp.

A concise manual and history of British principles in trade and commercial finance, banking, money and credit instruments, foreign exchanges, export of capital, touching briefly on changes brought about by war. Chap. IX (pp. 82–97) describes effect of war on money market, inflation of currency, activities of Dollar Securities Committee.

Stamp, J. C. British Incomes and Property. P. S. King & Son. 1916. xvi + 538 pp.

The greater part of this work was completed before outbreak of war. It presents a valuable account of pre-war conditions, state of national debt and income, &c., useful for contrasting with post-war conditions. Analyses official statistics relating to distribution of property and income from 1842 to 1914.

—— 'An Estimate of the Capital Wealth of the U.K. in Private Hands,' in *Econ. Jl.*, Sep. 1918 (vol. 28), pp. 276–86.

Makes pre-war valuations of various kinds of property, with suggestions as to changes caused by war, in order to form an estimate of the amount of wealth which would be affected by a Capital Levy.

Stock Exchange Official Intelligence for 1915, &c. Spottiswoode & Co.

A précis of information regarding British, American and foreign securities, grouped according to class (share issues, capital, latest profit and loss account, &c.). Contains statistics and general statements with regard to the state of municipal finances, economy measures taken by Local Authorities, &c.; highest and lowest prices of Consols since 1801; number and capital of joint stock companies; particulars of Government loan and municipal issues during the year; railway stock price fluctuations and dividends; Bank of England minimum discount rates and reserves, &c.

Stock Exchange Year Book for 1915, &c. Thos. Skinner & Co.

A digest of information relating to the origin, history and present position of each of the public securities and Joint Stock Companies known to U.K. markets. Give full details of all share issues, latest profit and loss accounts, dividends paid, &c. Prefaces give brief accounts of effect of war on money market and Stock Exchange.

U.S.A. The Economic Position of the U.K., 1912–18. By W. A. Paton. (*Vide supra*, p. 106.)

Chap. VIII (pp. 137–46) reviews financial position of U.K., 1912–18, i. e. trade balance, public and foreign finance, money market and banking.

Withers, Hartley. War and Lombard Street. Smith, Elder & Co. 1916. xix + 171 pp.

Sketches history of crisis in the City in early months of war, dealing with internal and external problems, and showing position of Lombard Street in comparison with other great financial world markets.

—— Our Money and the State. John Murray. 1917. viii + 122 pp.

Discusses critically the cause and effect of Government methods of borrowing, inflation and depreciation of currency, and taxation.

—— The Business of Finance. John Murray. 1918. vii + 236 pp.

Considers problems of British finance as viewed in the light of general principles and recent war experience. Deals with the provision of currency and credit, production of capital, issue of securities, exchange movements, and direct *versus* indirect taxation.

—— War-Time Financial Problems. John Murray. 1919. x + 306 pp.

Discusses critically British system of war finance and its effects. Shows effect of the war on banking, and discusses the consolidation movement and issuing of bonus shares. Criticizes war methods of taxation and discusses question of a levy on capital.

℄ *Financial Journals :*

Accountant. Weekly.

The Recognized Weekly Organ of Chartered Accountants. Gives, *inter alia*, records of cases and decisions in connexion with income tax, bankruptcy, company law, partnerships, rentals, &c., and discusses general principles affecting accountancy.

Economist. Weekly. 1*s*.

Contains reviews of money market, Stock Exchange news, reports of Company meetings and financial particulars, quarterly reviews of new capital issues, banking returns, loan and discount rates, rates of exchange, prices of commodities, &c. Articles and correspondence on financial matters, special trades, labour, wages, &c., and criticism of Government measures. Special banking number in May and Oct. (*c.* 100 pp.), giving accounts of British, colonial and foreign banks. War Supplements in Dec. 19, 1914 (40 pp.) and Dec. 18, 1915 (24 pp.), giving accounts of effect of war on industry, finance, prices, &c., throughout the world. Articles annually in Feb., ' Commercial history and review of [1914, &c.] ' (*c.* 70 pp.), giving accounts of state of trade and finance, prices, employment, wages, &c., during the year.

Financial Review of Reviews. Quarterly. 11*s*.

Articles on current industrial and financial questions, digests of company reports, statistical records of Stock Exchange securities (prices, dividends, &c.), &c.

Money Market Review and Investor's Chronicle. Weekly. 2*d*.

Contains full list of stock and share quotations. Leaders on financial matters, industrial profits, criticism of Government measures, &c. Scottish Stock Exchange notes. Notes on business finance, mining matters, railways, industrial securities ; reports on stock market conditions and prices, &c. ; company meeting reports, new issues, &c.

Statist. Weekly. 6*d*.

Articles and correspondence on political and financial matters, commercial situation in various industries, prices of commodities, with a good deal of information on Irish questions. Short notes on money market, Stock Exchange (with list of prices of chief securities), &c. Tabular appendix containing bank returns, foreign discount rates, foreign exchanges, bankers' clearings, &c. Banking section annually in May or June (*c.* 130 pp.), giving an account of progress of British banking, reports of individual banks with summary of balance sheets and profit and loss accounts, &c. Foreign and International Banking section in Oct. or Nov. (*c.* 200 pp.). Insurance section usually in Nov. or Dec. (*c.* 100 pp.), reviewing effect of war on life and other assurance during the year. *Vide* also HOLDEN, SIR EDWARD H., *supra*, p. 536.

B. BANKING AND CURRENCY [1]

¶ *Acts of Parliament :*

Coinage Act, 1920. 10 Geo. V. c. 3. 1 p.

Currency and Bank Notes Act, 1914. 4 & 5 Geo. V. c. 14. 2 pp.

Ibid. (Amendment) Act, 1914. 4 & 5 Geo. V. c. 72. 1 p.

¶ *Official Publications :*

Board of Trade. Production, Price Movements and Currency Expansions, Statements of. 1919, Cmd. 434. 6 pp. 1920, Cmd. 734. 11 pp.

Contain statistics for various countries, for 1919 and 1920 compared with previous years, of production of crops, coal, gold and silver; currency circulation; comparison of currency, wholesale prices and retail prices of food; index numbers; rates of exchange on London; increase of public debt; &c.

—— Statistical Abstract for U.K., 1905–19. 1921, Cmd. 1246. vii + 433 pp.

Contains statistics of monthly deposits at Bank of England, promissory notes in circulation, monthly rate of discount charged by Bank, amounts cleared at Bankers' clearing houses, &c.

—— *Bd. of Trade Jl.*, Sep. 16, 1920 (vol. 105), p. 349. 'Finance and Banking. U.K. New Capital Issues.'

Gives figures, compiled by London Joint City and Midland Bank, of new capital issues, monthly 1917 to 1920, and annually 1911 to 1920.

Ireland. Dept. of Agric. and Tech. Instruction. Banking and Railway Statistics, Ireland, Dec. 1914. 1914–16, Cd. 7884, vol. 80. 44 pp. — (*Ibid.*, 1915) 1916, Cd. 8330, vol. 32. 19 pp. — (*Ibid.*, 1916–17) 1918, Cd. 9119, vol. 25. 15 pp.

Contain statistics as to deposits in Joint Stock and Savings Banks, note circulation and amount of coin held by Irish Banks of Issue, &c.

Ministry of Reconstruction. Currency and Foreign Exchanges after the War, Committee on. *Vide* TREASURY and MINISTRY OF RECONSTRUCTION, *infra*.

Mint, Royal. Annual Reports of Deputy Master and Comptroller for 1914 to 1919. H.M.S.O. 1916, 1917, 1918, 1920 and (Rept. for 1918 and 1919) 1921.

Give particulars of Imperial and Colonial mintage, withdrawals from circulation, gold, silver and bronze coin held by banks, movements of gold and silver, receipts and expenditure of Mint, &c.

Treasury. Bank Amalgamations, Report of Committee on. 1918, Cd. 9052, vol. 6. 7 pp.

Discusses recent amalgamations of large banks and objections thereto.

—— Currency Notes, Treasury Minutes, Aug. 6 and 20, and Oct. 22, 1914, and Jan. 19, 1915, relative to issue of. — Currency note advances and securities held on account of currency note redemption account, Treasury Minute, May 3, 1915, relating to interest on. 1914–16, Cd. 7836, 7918, vol. 38. 6 pp., 1 p.

Reprinted in Manual of Emergency Legislation, Financial edition, *vide supra*, p. 527.

—— Currency Notes certificates, Treasury Minute, July 19, 1915, relative to. 1914–16, Cd. 8024, vol. 38. 1 p.

—— Currency Notes of 1st and 2nd issues, Treasury Minute, July 21, 1920, as to. 1920, Cmd. 849, 3 pp.

[1] *Vide* also FINANCE: GENERAL, § A, *supra*.

Treasury (*cont.*)

—— Enemy Banks (London agencies). Reports of Sir William Plender, 1916 and 1917. Report of Messrs. W. Leaf and R. V. Vassar Smith, 1917.

Vide supra, pp. 119–20.

—— Gold Production, Report of Committee on. H.M.S.O. 1918. 12 pp.

Describes position in S. Africa during war with regard to production of gold and arrangements made by British Government with producers. Discusses proposals for subsidy. Gives statistics of output, value, working cost, &c., in British Empire before and during war.

—— Notes, Correspondence between Treasury and Bank of England as to issue of, in excess of limit fixed by law at the time of the outbreak of war. 1914–16, No. 370, vol. 38. 1 p.

Treasury and **Ministry of Reconstruction.** Currency and Foreign Exchanges after the War, Committee on. 1st Int. Report. 1918, Cd. 9182, vol. 7. 12 pp. Final Report. 1919, Cmd. 464. 4 pp.

Interim Report discusses changes which have affected gold standard during war; gives estimate of amount of legal tender money in bank reserves and in circulation in U.K., June 1914 and July 1918; and makes recommendations as to post-war measures to be taken. Final Report discusses very briefly causes of weakness of exchanges and recommends measures to be taken; draws attention to extensive use made during war of system of Ways and Means advances from Bank of England.

¶ *Books and Periodicals :*

Benson, R. State Credit and Banking during the War and After. Macmillan & Co. 1919. 57 pp.

Makes suggestions for ' a central institution to provide means for after-war development by enabling holders of Government securities to borrow thereon '. Describes British banking system. Estimates probable state of post-war credit and draws conclusions as to methods for preserving it.

Falk, Oswald T. ' Will London be a Free Market for Gold after the War ? ', in *N. C.*, July 1916 (vol. 80), pp. 146–54.

Discusses extent and dangers of inflation. Suggests, as alternative, restriction of labour to useful occupations.

Fraser, D. Drummond. Finance after the War. Herald & Walker, Manchester. 1917. 32 pp.

Gives a short analysis of British State finance and banking results during war; makes suggestions for future development of banking.

—— ' The Nation's Balance Sheet.'

Vide infra, p. 562.

Frewen, Moreton. A Memorandum on the Finance of the Great War. Spottiswoode & Co. 1915. 21 pp.

Outlines briefly position of British finance before war, and describes situation at outbreak of war, criticizing severely the issue of Treasury notes and failure to suspend Bank Act. Discusses currency reform and post-war position of banking and the world's exchanges.

Furniss, H. Sanderson. The Industrial Outlook. Chatto & Windus. 1917. ix + 402 pp.

Chapter on ' Credit and Banking ' (pp. 255–309) by T. E. Gregory. Outlines British system of credit and banking before war. Explains difficulties which arose on outbreak of war and remedial measures taken, effect of these arrangements and of War Loan on banking. Discusses, in the light of war experience, long term *versus* short term credits, and policy of State aid for establishment of credit banks to develop British trade abroad.

Gregory, T. E. ' Credit and Banking.' *Vide* FURNISS, H. SANDERSON, *supra*.

Jennings, H. J. 'The Banks and the War Crisis,' in *F. R.*, Jan. 1915 (vol. 97), pp. 155–68.

Describes the immediate effects of the war upon the Joint-Stock Banks and discusses their policy.

Kelly, R. J. 'The Recent British Bank Amalgamations and Ireland,' in *Jl. Stat. and Social Inquiry Soc. of Ireland*, Oct. 1919 (Pt. 97, vol. 13), pp. 642–74.

Objects strongly to so-called amalgamation of British and Irish Banks, in reality the absorption and de-nationalization of Irish banks. Describes amalgamations which have taken place and shows the peril, especially to Ireland, of a big money combine.

Kerr, A. W. History of Banking in Scotland. A. & C. Black. 3rd. ed. 1918. xii + 324 pp.

Chaps. XXX and XXXI (pp. 293–307) deal with war period. Show how Scottish bank note circulation was affected, manner in which banks met crisis. Appx. compares balance sheets of Scottish banks in 1901–2 and 1916–17.

Keynes, J. M. 'The Prospects of Money, Nov. 1914,' in *Econ. Jl.*, Dec. 1914 (vol. 24), pp. 610–34.

Discusses and explains effect on Bank of England of difficulties of Accepting Houses at outbreak of war, purchase by Bank of bills, growth of its bill holdings and other deposits, increase in gold stocks, &c. Discusses future policy and probable effect of War Loan on money market.

Lawrence, F. W. Pethick. 'Deflation and Prices after the War,' in *Econ. Jl.*, Dec. 1918 (vol. 28), pp. 398–408.

Discusses inflation during war, probable position after war and future policy.

Mellor, H. 'Paper Currency and the Rise in Prices,' in *Bankers' Magazine*, Jan. 1916 (vol. 101), pp. 93–6.

Contests argument of Sir R. H. Inglis Palgrave (*vide infra*, 'Increase of Notes in Circulation'). Attributes rise in prices to increased demand for commodities.

Miller, Sir John O. High Prices and the Quantity Theory. Sifton, Praed & Co. 1920. 86 pp.

Supports the quantity theory of money and examines in the light of past experience, especially of recent war effects, the connexion between prices and the supply and value of currency.

Nicholson, J. S. War Finance. P. S. King & Son. 2nd ed. 1918. xxxii + 504 pp.

Pt. I is a collection of articles published in various periodicals before and during war, including: 'The Abandonment of the Gold Standard' (*Q. R.*, Ap. 1915 (vol. 223), pp. 409–23); 'Inflation of the Currency and the Rise in Prices' (*Econ. Jl.*, Dec. 1916 (vol. 26), pp. 415–40); 'Statistical Aspects of Inflation' (*Jl. Roy. Stat. Soc.*, July 1917 (vol. 80), pp. 467–520); 'After the War—What?' in Great Britain' (*New York Annalist*, Mar. 6, 1916). Discusses and criticizes financial war measures of the Government, inflation of currency and its effect on prices, &c. Pt. II contains reprints of articles published in the *Scotsman*, 1914 to 1918, discussing briefly the same subjects.

—— Inflation. P. S. King & Son. 1919. 143 pp.

States facts and theories connected with abandonment of the gold standard during war and consequent inflation of currency. Examines, in connexion with inflation, the burden of high prices and of public debt and ways of lessening them, showing necessity for reducing inconvertible issues and returning to pre-war gold standard.

Palgrave, Sir R. H. Inglis. 'The Use of Notes instead of Gold,' in *Bankers' Magazine*, Sep. 1915 (vol. 100), pp. 330–6.

Advocates use of bank-notes of small value, giving reasons and deprecating issue of Treasury notes.

—— 'Increase of Notes in Circulation,' in *Bankers' Magazine*, Oct. and Dec. 1915 (vol. 100), pp. 461–6, 720–5.

Shows extent of increase in currency notes, deprecating this and the issue of

notes by both Bank of England and Treasury. Attributes rise in prices of commodities to increased currency note issue.

Pigou, A. C. 'Inflation,' in *Econ. Jl.*, Dec. 1917 (vol. 27), pp. 486–94.

Discusses how far price changes have been due to monetary and banking arrangements and how far to other causes.

—— 'The Problem of the Currency,' in *C. R.*, Feb. 1920 (vol. 117), pp. 169–76.

Explains methods of manipulation of credit and currency adopted by Government during war and problems confronting them. Discusses in detail present position and difficulties as regards currency shortage and rise in prices, and methods of improving position.

Shaw, Wm. A. 'The Currency Note in relation to Banking and the Exchanges,' in *Q. R.*, Jan. 1919 (vol. 231), pp. 97–111.

Gives an account of financial measures taken by Government on outbreak of war, subsequent replacement of gold by paper money. Argues that rise in prices is not due to inflation.

Shirras, J. Findlay. 'Some Effects of the War on Gold and Silver,' in *Jl. Roy. Stat. Soc.*, July 1920 (vol. 83), pp. 572–627.

Discusses statistics for 1913–20 of world production of gold and silver, fluctuations in commercial price of gold and silver in London and India, growth of paper currency and bank reserves in various countries, &c.

Sykes, E. 'Some Effects of the War on the London Money Market,' in *Jl. Inst. Bankers*, Feb. 1915 (vol. 36), pp. 68–84.

Explains at some length the action of the Government and the banks at outbreak of war and subsequently, defending the latter against certain criticisms. Discusses statistics relating to the reserve and deposits of Bank of England after outbreak of war.

— Banking and Currency. Butterworth & Co. 1918. xiv + 314.

Gives broad outline of the principles and history of banking finance and a clear account (moderately critical) of the state of the City after outbreak of war.

Trades Union Congress Parliamentary Committee. Joint Committee on the Cost of Living. Int. Report on Money and Prices. 1920. 23 pp. (Reprinted in *Reports of Trade Union Congress*, 1920, pp. 416–32.)

Discusses causes of rise in prices (how far due to expansion of currency) and policy to be pursued.

Wall, W. W. The War and our Financial Fabric. Chapman & Hall. 1915. xviii + 224 pp.

A critical inquiry into British methods of banking and currency, showing lessons to be learned from effect of war and making suggestions for improved methods.

Wilson, Sir James. 'The Depreciation of the British £ and its Remedy,' in *Scottish Bankers' Mag.*, Jan. 1920 (vol. 11), pp. 244–9.

Discusses extent of depreciation as revealed by certain market dealings, by note issues, &c., and suggests action to be taken to remedy the position.

¶ *Financial Journals :*

Bankers' Magazine. Monthly.

Gives long accounts of effect of war on various branches of finance; notes and comments on banking activities, exchange movements, gold movements, &c.; long monetary and Stock Exchange reviews. Reproduces banking and commercial law case reports, bank reports, meetings, &c., Bank of England returns, tables giving state of fixed issues of Great Britain and Ireland, summary of weekly returns of banks of issue and Scottish and Irish banks, London and provincial Clearing House returns, mint reports, insurance notes and reports, &c., &c. Reproduces and explains Government Orders. Contains long articles on matters of current interest and reviews of the year's progress in banking and insurance.

Economist. Weekly.

Vide supra, pp. 543–4.

Institute of Bankers, Journal of. Monthly. 1*s.* 6*d.*

Contains short notes (not critical) on current financial events, details of bank amalgamations, reports of legal decisions affecting banking, articles on current banking problems, &c. Gives a yearly report on work of London Bankers' Clearing House.

Institute of Bankers in Ireland, Journal of. Dublin. Monthly.

Contains short notes on current financial topics, explanations and criticisms (moderate) of war measures, articles on effect of war on Irish finance and commerce, banking in war-time, &c., by Prof. Oldham, E. F. Leet, and others. Reproduces reports of legal decisions in Ireland affecting bankers, weekly returns of Dublin Clearing Office, returns of Irish banks of note issue.

Scottish Bankers' Magazine. Wm. Blackwood & Sons, Edinburgh and London. Quarterly.

The Journal of the Institute of Bankers in Scotland. Contains discussions of financial matters, accounts of effect of war on Scottish banks, reports of legal cases affecting banking, critical reports from London on money market and war finance, annual reports of Institute, bank statistics (balance sheets, profit and loss accounts), records of Scottish bank rates weekly, &c.

Statist. Weekly.

Vide supra, p. 544.

C. FOREIGN EXCHANGES AND FOREIGN INVESTMENTS [1]

¶ *Act of Parliament :*

Bills of Exchange Act, 1914. 4 & 5 Geo. V. c. 82. 1 p.

¶ *Official Publications :*

Treasury. American Dollar Securities Committee, Report of. 1919, No. 212. 69 pp.

Gives an account of steps taken by the Committee to improve and maintain American rate of exchange and results of their operations. Appx. contains list of all securities obtained by the Treasury.

—— Swiss credit, Treasury Minute, Ap. 17, 1918, as to arrangements with certain banks in connexion with a. 1918, Cd. 9049, vol. 15. 1 p.

Deals with arrangements for payment of goods to be exported from Switzerland for war purposes.

—— and **Ministry of Reconstruction.** Currency and Foreign Exchanges after the War, Reports of Committee on.

Vide supra, p. 547.

¶ *Books and Periodicals :*

Hobson, C. K. 'Are we living on our Capital?' Letter in *Economist*, Feb. 13, 1915 (vol. 80), pp. 277–9.

Examines, from statistics of foreign trade, &c., extent of reduction in British capital holdings abroad.

—— 'The War in relation to British Foreign Investments,' in *Econ. Jl.*, June 1915 (vol. 25), pp. 244–55.

Describes changes in nature of British foreign investments since war. Examines trade balance of U.K. and concludes that the inroad on wealth of the country is slight.

Paish, Sir Geo. 'The Economic Outlook in Europe,' in *C. R.*, Sep. 1919 (vol. 116), pp. 251–6.

Discusses economic position of Great Britain as result of war and estimates real value of her foreign holdings.

Spalding, W. F. Foreign Exchange and Foreign Bills. Sir I. Pitman & Sons. 1915. xii + 215 pp.

[1] *Vide* also FINANCE: GENERAL, § A, *supra*, pp. 527–44.

Spalding, W. F. (*cont.*)

Deals exhaustively with the theory and practice of foreign exchange, using as illustrations the movements and methods adopted during war in Great Britain and other countries. Gives detailed review of effect of war on British money market and consequent effect on foreign exchange.

—— A Primer of Foreign Exchange. Sir I. Pitman & Sons. 1919. vii + 107 pp.

A manual of the principles governing foreign exchange transactions and fluctuations, showing their application to Great Britain during war and dealing, especially in the light of current events, with influence of the export of gold and issue of paper money on the exchange question.

Todd, John A. The Mechanism of Exchange. Oxford University Press. 1917. 2nd ed. 1919. xiv + 273 pp.

A systematic historical examination of the meaning of and factors affecting the exchange question, especially in Great Britain, showing effects of war and how war experience has altered the accepted principles. 2nd ed. contains an additional chapter on further effects of war.

¶ *Financial Journal :*

Bankers' Magazine. (*Vide supra*, p. 552.)

Contains monthly notes and comments on exchange movements.

D. LOCAL FINANCE

¶ *Acts of Parliament :*

Dublin Reconstruction (Emergency Provisions) Act, 1916. 6 & 7 Geo. V. c. 66. 12 pp.

Secs. 3, 4, and 10 deal with loans in aid of reconstruction expenses.

Public Authorities and Bodies (Loans) Act, 1916. 6 & 7 Geo. V. c. 69. 2 pp.

Public Works Loans Act, 1914. 4 & 5 Geo. V. c. 33. 3 pp.

Ibid., 1915. 5 & 6 Geo. V. c. 68. 2 pp.

Ibid., 1916. 6 & 7 Geo. V. c. 28. 3 pp.

Ibid., 1917. 7 & 8 Geo. V. c. 32. 2 pp.

Ibid., 1918. 8 & 9 Geo. V. c. 27. 3 pp.

Ibid., 1919. 9 & 10 Geo. V. c. 52. 3 pp.

Ibid., 1920. 10 & 11 Geo. V. c. 61. 4 pp.

¶ *Official Publications :*

Ireland. Local Government Board for Ireland. Annual Reports. (*Vide supra*, p. 95.)

Contain information as to borrowing by local authorities, payments from Local Taxation Account in aid of local rates, &c.

—— *Ibid.* Local Taxation in Ireland, Returns of.—(Return, 1914–15) 1916, Cd. 8420, vol. 23.—(Return, 1915–16) 1917–18, Cd. 8510, vol. 25.—(Return, 1916–17) 1918, Cd. 9021, vol. 20.—(Return, 1917–18) 1919, Cmd. 133.—(Return, 1918–19) 1920, Cmd. 799. 27 pp. each.

Contain summary tables of revenue, sums paid from Local Taxation (Ireland) Account in aid of local rates, expenditure, &c.

—— Local Taxation (Ireland) Account, Returns showing total payments into and out of.—(Return, 1914–15) 1914–16, No. 422, vol. 55. — (Return, 1915–16) 1917–18, No. 14, vol. 25.—(Return, 1916–17) 1919, No. 75.—(Return, 1917–18) 1919, No. 76.—(Return, 1918–19) 1920, No. 38. 4 pp. each.

Local Government Board (England and Wales). Annual Reports

for 1914–15 to 1916–17, Pts. III. Reports for 1917–18 and 1918–19, Pts. I. (Sections on Public Health and Local Administration). (*Vide supra*, p. 97.)

Contain information as to borrowing by local authorities, sums paid into local taxation account, measures taken to enforce economy, &c.

—— Local Taxation Returns (England and Wales). Summary for 1914–15. 1919, No. 54. 71 pp.

Statistics of expenditure, receipts, loans, exchequer grants, valuation, rates collected. (Published only in summary form owing to war.)

Ministry of Health. 1st Annual Report, 1919–20. Pt. I. 1920, Cmd. 923. (*Vide supra*, p. 97.)

Pp. 92–144 and Apps. pp. 160–9, deal with local administration (borrowing by Local Authorities and audit) and local taxation and valuation (expenditure, receipts, loans, rates, &c.).

—— Local Rates, increase in amount of, per pound of assessable value, Memorandum on. 1920, Cmd. 1016. 18 pp.

Gives sums received in rates by Local Authorities from 1904 to Mar. 1919, showing percentage increase and comparing it with increase in cost of living. Discusses increase in rates since Mar. 1919 and causes of increase since beginning of war.

National Debt Office. Local Loans Fund, Accounts of receipts and payments by Commissioners for reduction of National Debt in respect of capital and income of, with report of Comptroller and Auditor-General. — (Accts., 1914–15) 1914–16, No. 418, vol. 38. 28 pp. — (Accts., 1915–16 and 1916–17) 1917–18, Nos. 17 and 170, vol. 19. 18 pp., 18 pp.— (Accts., 1917–18) 1919, No. 12. 18 pp. — (Accts., 1918–19) 1920, No. 16. 18 pp.

Give particulars of loans made by Public Works Loan Commissioners, Commissioners of Public Works in Ireland, Irish Land Commission.

Public Works Loan Board. Annual Reports.—(Report, 1914–15) 1914–16, No. 267, vol. 34. 115 pp. —(Report, 1915–16) 1916, No. 89, vol. 15. 38 pp. — (Report, 1916–17) 1917–18, No. 85, vol. 18. 27 pp. — (Report, 1917–18) 1918, No. 75, vol. 12. 25 pp.—(Report, 1918–19) 1919, No. 123. 26 pp.— (Report, 1919–20) 1920, No. 130. 35 pp.

Contain information with regard to local loans, advances made, repayments, outstanding amounts, arrears, &c.

Scotland. Local Government Board for Scotland. Annual Reports for 1914 to 1916. (*Vide supra*, p. 98.)

Contain brief accounts of borrowing by Local Authorities.

—— Local Taxation Returns (Scotland). — (Return, 1914–15) 1916, No. 143, vol. 23.—(Return, 1915–16) 1917–18, No. 166, vol. 25.—(Return, 1916–17). H.M.S.O. 1919. 46 pp. each.

Contain summary tables of revenue, assessments, grants, expenditure, and loans. (Detailed tables not published owing to war.)

—— Local Taxation (Scotland) Account, Return showing (1) principal statutory provisions affecting payments into and out of, and (2) amount of such payments for 1914–15. 1914–16, Cd. 7998, vol. 55. 11 pp. — (Return, 1915–16) 1916, Cd. 8318, vol. 23.—(Return, 1916–17) 1917–18, Cd. 8802, vol. 25.—(Return, 1917–18) 1918, Cd. 9189, vol. 20.—(Return, 1918–19) 1919, Cmd. 405.—(Return, 1919–20) 1920, Cmd. 1050. 4 pp. each.

—— Scottish Board of Health. Areas, Population and Valuation of Counties, Burghs and Parishes in Scotland, Return of. 1920, Cmd. 829. 39 pp.

Gives areas in 1919 and valuation for 1919–20.

E. NATIONAL DEBT [1]

¶ *Acts of Parliament :*

American Loan Act, 1915. 5 & 6 Geo. V. c. 81. 1 p.

Finance Acts. *Vide infra*, pp. 569–71.

Finance (Exchequer Bonds) Amendment Act, 1916. 6 & 7 Geo. V. c. 36. 1 p.

Government of the Soudan Loan Act, 1919. 9 & 10 Geo. V. c. 43. 2 pp.

War Loan Act, 1914. 4 & 5 Geo. V. c. 60. 1 p.

Ibid., 1915. 5 & 6 Geo. V. c. 55. 2 pp.

Ibid. (Supplemental Provisions) Act, 1915. 5 & 6 Geo. V. c. 93. 4 pp.

Ibid. (Trustees) Act, 1915. 5 & 6 Geo. V. c. 56. 1 p.

Ibid., 1917. 7 & 8 Geo. V. c. 41. 2 pp.

Ibid., 1918. 8 & 9 Geo. V. c. 25. 2 pp.

Ibid., 1919. 9 & 10 Geo. V. c. 37. 3 pp.

¶ *Official Publications :*

Committees. Premium Bonds, Select Committee on.

Vide infra, p. 565.

National Debt Office. Return showing for each year from 1875 to 1920 : I. Total amount of dead weight debt outstanding on 1st April; amounts made available each year for reduction of debt ; gross amount of debt redeemed ; amount of debt created ; and net increase or decrease of debt in the year. II. A similar statement of other capital liabilities. III. A similar statement in respect of the aggregate gross liabilities of the State. 1920, No. 240. 7 pp.

—— Return showing (1) aggregate gross liabilities of the State as represented by Nominal Funded Debt, estimated capital liability in respect of terminable annuities, unfunded Debt and other liabilities in respect of Debt, estimated assets, and Exchequer balance at the close of each year from 1875–6 to 1919–20, and (2) gross and net expenditure charged annually during that period on account of the National Debt, and other payments connected with capital liabilities. 1920, Cmd. 1024. 39 pp.

Contains also notes on the principal transactions affecting the Debt.

—— Sinking Funds, old and new, Accounts showing amount received from Exchequer in respect of, and particular application thereof. — (Acct., 1914–15) 1914–16, No. 238, vol. 38. 5 pp.— (Acct., 1915–16) 1916, No. 81, vol. 17. 1 p. — (Acct., 1916–17) 1917–18, No. 93, vol. 19. 1 p.

—— Statement of estimated dead weight debt and other capital liabilities and assets on Mar. 31, 1920. 1920, Cmd. 780. 4 pp.

Treasury. Canadian Government ,Treasury Minutes, Mar. 1 and 29, 1920, as to certain financial arrangements between H.M. Government and. 1920, Cmd. 616 and 651. 2 pp. each.

[1] *Vide* also FINANCE : GENERAL, and SAVING, §§ A, *supra*, pp. 527–44, and F, *infra*, pp. 563–70.

Make provision for mutual cancellation in respect of certain stated debts.

—— External Debt of this country, due date, and arrangement made for repayment, Return showing, as on Mar. 31, 1919 and 1920 respectively. 1920, No. 144, 3 pp.

Shows extent of debt to each country and increase or decrease in 1919–20.

—— War Loans for the Small Investor, Committee on.

Vide infra, p. 566.

¶ *Books and Periodicals :*

Allen, J. E. The War Debt and how to meet it. Methuen. 1919. vi + 150 pp.

An explanatory and critical survey of British war debt and Government methods of war finance. Discusses adversely proposed capital levy to meet debt and shows alternatives to such a levy. Notes changes in capital and income brought about by war.

Athenaeum. The War and Wealth. Pamphlets on Problems of National Reconstruction, No. VII. (?) 1917. *The Athenaeum.* 7 pp.

Estimates and discusses extent of national debt and compares it with pre-war debt and income. Discusses extent to, and manner in, which war charges could be met by taxation.

Fraser, D. Drummond. Letters to *Economist.* (1) May 13, 1916 (vol. 82), pp. 862–3. 'Treasury Bills and Exchequer Bonds.' (2) Aug. 10, 1918 (vol. 87), pp. 181–2. 'Day by Day Borrowing.'

(1) Argues in favour of Exchequer Bonds and on necessity for checking increase in outstanding amount of Treasury Bills. (*Vide* also LAWSON, W. R., *infra*). (2) Advocates day by day borrowing and gives chart showing the increase of subscriptions to War Bonds since the lowering of the Treasury bill discount rate.

—— Day by Day Government Borrowing in War Time. Herald & Walker, Manchester. 1917. 40 pp.

A reprint of short articles appearing in the *Column Monthly*, Feb. to Mar. 1917; *Daily Dispatch*, July 25, 1917; *Economist*, Dec. 4, 1915 (vol. 81), pp. 942–3, and Aug. 4 and 11, 1917 (vol. 85), pp. 164–5, 212–3; *Manchester Chamber of Commerce, Monthly Record*, Aug. 1917 (vol. 28), pp. 230–3; *Manchester Guardian*, Sep. 8, 1914; and *Morning Post*, Dec. 21, 1915.

—— 'The Nation's Balance Sheet,' in *Jl. Inst. Bankers*, Jan. 1920 (vol. 41), pp. 6–36 (with discussion).

Advocates bond issues. Shows extent to which war loans have been obtained from home moneys and dislocation caused by transfer of money in connexion with spectacular loans. Praises the granting of credit facilities to the banks in 1914, but shows evils of creation of bank money. Analyses increased bank deposits and shows how large a proportion of the increase was created against Government securities. Explains and urges policy of continuous loans on the bond system, reduction of deposit rates and attraction of deposit money into bond investments.

Hobhouse, C. 'The Financial Situation,' in *C. R.*, Aug. 1915 (vol. 108), pp. 137–45.

Examines financial situation at outbreak of war and capacity and resources for maintenance of war. Discusses war loan issues and extent of possible sources of subscription.

Inchcape, Lord. Presidential Address, in *Jl. Inst. Bankers*, Dec. 1915 (vol. 36), pp. 470–8.

Reviews circumstances which led up to placing of loan of £100,000,000 in U. S. A. Criticizes favourably Great Britain's war finance methods.

Jennings, H. J. 'The Great War Loan,' in *F. R.*, Aug. 1915 (vol. 98), pp. 203–17.

Describes success of loan, its terms, effect on money market, and gives financial reasons for its issue.

—— 'Why not a Currency Loan ?', in *N. C.*, Dec. 1915 (vol. 78), pp. 1225–32.

Explains the scheme and gives reasons in its favour.

Lawson, W. R. 'Treasury Bills and Exchequer Bonds,' in *Economist*, May 20, 1916 (vol. 82), pp. 897–8.

Agrees with D. Drummond Fraser (*vide supra*) on necessity of checking Treasury bill issues and examines conditions under which their sale has been effected.

Pigou, A. C. 'The Economics of the War Loan,' in *Econ. Jl.*, Mar. 1917 (vol. 27), pp. 16–25.

Advocates taxation rather than borrowing.

—— 'A Plea for Higher Income-tax,' in *C. R.*, Jan. 1918 (vol. 113), pp. 35–9.

Argues in favour of increased income tax instead of loans.

Radcliffe, Raymond. 'The Lesson of the War Loan,' in *E. R.*, Mar. 1917 (vol. 24), pp. 280–88.

Describes manner in which success of latest war loan was brought about, part played by banks.

Scott, W. R. 'On Paying our War Bill,' in *Proc. Roy. Phil. Soc. Glasgow*, 1915–16 (vol. 47), pp. 122–37.

Discusses methods of paying, taxation *versus* borrowing, and methods of borrowing.

—— 'The Adjustment of War Expenditure between Taxes and Loans,' in *Ibid.*, 1917–18 (vol. 49), pp. 10–30.

Reviews the history of economic thought, especially in England and Germany, as to the methods of financing wars; discusses relative advantages of taxation and borrowing in relation to the present war.

Sprague, O. M. W. 'The Conscription of Income a sound Basis for War Finance,' in *Econ. Jl.*, Mar. 1917 (vol. 27), pp. 1–15.

Discusses principles which should determine war financial policy, taxation *versus* borrowing.

Thompson, Newman. 'The Finance of the War,' in *Jl. Stat. and Soc. Inquiry Soc. of Ireland*, Oct. 1919 (Pt. 97, vol. 13), pp. 518–40.

Describes financial steps taken at outbreak of war and methods by which war expenditure has been met, criticizing them fairly severely, especially method of borrowing instead of increasing taxation. Reviews future difficulties.

F. SAVING [1]

¶ *Acts of Parliament :*

Municipal Savings Banks (War Loan Investment) Act, 1916. 6 & 7 Geo. V. c. 47. 2 pp.

Savings Banks Act, 1920. 10 & 11 Geo. V. c. 12. 7 pp.

¶ *Official Publications :*

Admiralty. Naval Savings Banks, Accounts of deposits in.—(Acct., 1914–15) 1916, No. 17, vol. 17.—(Acct., 1915–16) 1917–18, No. 49, vol. 19.—(Acct., 1916–17) 1918, No. 40, vol. 15.—(Acct., 1917–18) 1919, No. 180.—(Acct., 1918–19) 1920, No. 78. 2 pp. each.

Committees. National War Savings Committee. Annual Reports. — (Report, 1916) 1917–18, Cd. 8516, vol. 18. 18 pp. — (Report, 1917) 1918, Cd. 9112, vol. 14. 14 pp.—(Report, 1918) 1919, Cmd. 194. 8 pp.—(Report, 1919) 1920, Cmd. 775. 9 pp.

Describe local organization set up, methods of propaganda and results, opera-

[1] *Vide* also FINANCE: GENERAL, § A, *supra*, pp. 527–44.

tions of Birmingham Municipal Savings Bank, &c. Statistics as to amount saved by small investor (Savings Bank deposits, Exchequer Bonds, &c.), number of War Savings Associations, &c.

—— *Ibid.* War Savings Handbook. 3rd ed. 1917. 72 pp.

Describes work and objects of National Committee, organization and work of local committees, formation and advantages of War Savings Associations, &c.

—— Parliamentary War Savings Committee. Why we must save and how. 1915. 47 pp.

Discusses ways in which saving should be effected, e. g. food consumption, food cultivation, &c.

—— Premium Bonds, Select Committee on. Report, with proceedings of the Committee, Minutes of Evidence and Appendices. Index and Digest of Evidence. 1917–18, No. 168, 168–Ind., vol. 3. xii + 180 pp.

Discusses extent to which smaller investors, especially working classes, have saved, organization of War Savings Associations and extent of success, arguments for and against issue of Premium Bonds (amount of money to be secured, ethical aspect, effect on financial prestige and credit, &c.). Appx. contains figures of the amounts of the various War Loans subscribed through Post Office.

Post Office. Postmaster General, Reports of, for 1914–15 and 1915–16. (*Vide supra*, p. 529.)

Contain reports on Savings Bank business, amount of deposits, withdrawals, &c.

—— Post Office Savings Banks. Accounts of deposits received and paid. — (Acct., 1914) 1914–16, No. 286, vol. 59. — (Acct., 1915) 1916, No. 96, vol. 24. — (Acct., 1916) 1917–18, No. 99, vol. 27.— (Acct., 1917) 1918, No. 77, vol. 15. — (Acct., 1918) 1919, No. 127. 3 pp. each.

Scotland. Scottish War Savings Committee. Annual Report for 1916–17. 1917–18, Cd. 8799, vol. 18. 15 pp. — Report for 1917–18. 1918, Cd. 9202, vol. 14. 5 pp.

Describe operations of the Committee, methods of propaganda, &c. Statistics (in 1st Report) as to growth of War Savings Associations and number of certificates sold.

Treasury. Retrenchment in Public Expenditure, Committee on. 1st to 4th (Final) Reports. 1914–16, Cd. 8068, 8139, vol. 33. 6 pp., 1 pp. 1916, Cd. 8180, 8200, vol. 15. 4 pp., 26 pp.

Make minor recommendations for retrenchment, e. g. *re* increase of postage rates, suspension of activities of Road Board, &c.

—— Trustee Savings Banks. Annual Reports of Inspection Committee. — (Report for year ended Nov. 20, 1914) 1914–16, No. 121, vol. 59. 18 pp.—(Report, 1914–15) 1916, No. 45, vol. 24. 19 pp. — (Report, 1915–16) 1917–18, No. 60, vol. 27. 13 pp.— (Report, 1916–17) 1918, No. 32, vol. 13. 13 pp. — (Report, 1917–18) 1919, No. 85. 23 pp.—(Report, 1918–19) 1920, No. 66. 19 pp.

Report on inspection work. Contain statistics of total deposits in Trustee Savings Banks. Some reference made to effect of war on saving.

—— *Ibid.* Return for year ending Nov. 20, 1914. 1914–16, No. 317, vol. 59. 13 pp.

Gives for each Bank number of depositors, total amount of deposits, amount invested, assets, &c. (This return not published for subsequent years; summary of statistics is given in Reports of Inspection Committee, *supra.*)

—— War Loans for the Small Investor, Committee on. Int. Report. 1914–16, Cd. 8146, vol. 37. 1 p. Final Report. 1916, Cd. 8179, vol. 15. 10 pp.

Interim Report recommends removal of restrictions on amount of Savings Bank deposits, issue of Exchequer Bonds of

small denomination, &c. Final Report discusses need for saving, recommends organization of voluntary savings associations, adoption of war savings certificate scheme, &c., discusses bonus bonds and compulsory loans.

War Office. Military Savings Banks, Statements of amount due by the public to depositors in, and of receipts, interest, and disbursements.—(Statement for 1914–15) 1916, No. 43, vol. 17. — (*Ibid.*, 1915–16) 1917–18, No. 57, vol. 19. — (*Ibid.*, 1916–17) 1918, No. 35, vol. 15.—(*Ibid.*, 1917–18) 1919, No. 60. — (*Ibid.*, 1918–19) 1920, No. 56. 1 p. each.

¶ *Books and Periodicals :*

Barrington, Viscountess. 'The Cult of Economy,' in *N. C.*, Ap. 1916 (vol. 79), pp. 861–78.

Describes the thrift campaign, discussing its results among the working, upper and middle classes.

Baumann, Arthur A. 'About Personal Economy,' in *N. C.*, Dec. 1916 (vol. 80), pp. 1284–91.

Discusses causes of extravagance during war-time and failure of thrift campaign.

Chance, J. C. 'The Thrift Campaign,' in *N. C.*, Feb. 1916 (vol. 79), pp. 338–43.

Describes work of the 'United Workers', Government thrift campaign, &c.

Crammond, Edgar. 'Retrenchment and Thrift,' in *Q. R.*, Ap. 1916 (vol. 225), pp. 519–45.

Reviews reports of Committee on Retrenchment in Public Expenditure.

Crotch, W. W. *Vide* Farrow, Th. and Crotch, W. W., *infra.*

Farrow, Th. and **Crotch, W. W.** How to Win the War—The Financial Solution. T. Werner Laurie. 1916. 98 pp.

A plea for a national thrift campaign. Makes suggestions for collecting subscriptions to War Loan, &c.

Gibson, A. H. 'Effect of the War Loans on Savings Bank Deposits', in *Bankers' Magazine*, Oct. 1915 (vol. 100), pp. 475–7.

Analyses and explains causes of variation in Savings Bank deposits since July 1914 in connexion with withdrawals for subscription to War Loan.

Hobson, J. A. 'Investment under War Conditions,' in *F. R. R.*, Mar. 1915 (vol. 10), pp. 3–13.

Discusses Government finance measures in the light of their effect on the policy of the geographical distribution of investment. Criticizes restriction of export of capital as tending to encouragement of spending instead of saving, concentration of national savings within the country and consequent enhancement of risk, &c.

—— 'The Cost of War. I. The War Loan as an Instrument of Economy,' in *N. C.*, Sep. 1915 (vol. 78), pp. 691–701.

Argues that State borrowing has proved inadequate as means of saving. Shows theoretical disadvantages of inflation. Urges increased taxation.

Hyndman, H. M. 'The Cost of War. III. Thrift no Panacea without Increased Production,' in *N. C.*, Sep. 1915 (vol. 78), pp. 714–28.

Shows, by reference to war conditions, &c., that private thrift would not benefit State saving without increased production. Urges development of co-operative societies.

Jones, J. H. 'The War and Economic Progress,' in *Proc. Roy. Phil. Soc. Glasgow*, 1915–16 (vol. 47), pp. 25–47.

Discusses change in public attitude from 'business as usual' to economy, difficulty in enforcing thrift, effect of war on production, &c.

Marriott, J. A. R. 'Private Thrift and Public Expenditure,' in *F. R.*, Aug. 1915 (vol. 98), pp. 270–82.

Discusses failure of saving to keep pace during war with demands for capital and blames Government for discouraging thrift by their vast expenditure and over-taxing of middle classes.

—— 'The Thrift Campaign,' in *N. C.*, Feb. 1916 (vol. 79), pp. 324–37.

Discusses lack of understanding of need for saving, effect of Government example, steps which should be taken.

Muir, Ransome. 'How to run a War Savings Association,' in *System*, Jan. 1917 (vol. 31), pp. 12–16.

Gives hints for working of an association and describes schemes adopted by two firms.

Portland, Duke of. 'The War Savings Movement in Nottinghamshire', in *N. C.*, July 1918 (vol. 84), pp. 150–9.

Describes methods adopted, difficulties encountered and results obtained.

Quail, Jesse. 'The Thrift Movement and the Future of Investment,' in *F. R. R.*, Sep. 1916 (vol. 11), pp. 333–47.

Describes Government measures to encourage saving (i. e. work of War Savings Committee), and shows financial results and effect on Savings Bank deposits. Criticizes Government policy with regard to loan issues and differential methods of taxation of income and discusses probable future distribution of investment among the classes.

Scott, W. R. Economic Problems of Peace after War. (*Vide supra*, p. 541.)

Contains a chapter (vol. 1, pp. 81–97) discussing effects of war on saving and probable future developments.

Sellers, Edith. 'Wilful Waste, Woful Want', in *N. C.*, Mar. 1916 (vol. 79), pp. 670–85.

Discusses, from inquiries she has made, how far working classes are saving. Notes rise in standard of living, e. g. children better fed and clothed.

Shairp, L. V. 'Municipal Savings Banks,' in *C.O. R.*, Nov. 1916 (vol. 40), pp. 202–7.

Discusses provisions of the Municipal Savings Banks Act, 1916. Describes the Birmingham Corporation Savings Bank and discusses its prospects of success.

System, July 1917 (vol. 32), pp. 23–6. 'The Triple Benefit of Employees' War Savings.'

Discusses progress of War Savings movement, instancing what is being done by various firms.

¶ *Financial Journal :*

Scottish Bankers' Magazine. (*Vide supra*, p. 554.)

Contains quarterly reviews of progress of War Savings Committee in Scotland.

G. TAXATION[1]

¶ *Acts of Parliament :*

Death Duties (Killed in War) Act, 1914. 4 & 5 Geo. V. c. 76. 2 pp.

Finance Act, 1914 (Session 2). 5 Geo. V. c. 7. 7 pp.

Ibid., 1915. 5 & 6 Geo. V. c. 62. 13 pp.

Ibid. (No. 2), 1915. 5 & 6 Geo. V. c. 89. 34 pp.

Ibid., 1916. 6 & 7 Geo. V. c. 24. 31 pp.

[1] *Vide* also FINANCE: GENERAL, § A, *supra*, pp. 527–44, and (especially for discussions as to taxation *versus* borrowing) NATIONAL DEBT, § E, *supra*, pp. 559–64.
Reference may also be made to the 'Bibliography of Conscription of Wealth (Levy on Capital)', in *Bulletin of the British Library of Political Science*, Nov. 1919 (No. 8), pp. 10–12.

Finance Act, 1917. 7 & 8 Geo. V. c. 31. 22 pp.

Ibid., 1918. 8 & 9 Geo. V. c. 15. 25 pp.

Ibid., 1919. 9 & 10 Geo. V. c. 32. 18 pp.

Ibid., 1920. 10 & 11 Geo. V. c. 18. 45 pp.

Finance (New Duties) Act, 1916. 6 Geo. V. c. 11. 7 pp.

Income Tax Act, 1918. 8 & 9 Geo. V. c. 40. 180 pp.

¶ *Official Publications :*

Board of Customs and Excise. Annual Reports.—(Report, 1914–15) 1914–16, Cd. 7621, vol. 13. 98 pp. — (Report, 1915–16) 1916, Cd. 8428, vol. 6. 111 pp.—(Report, 1916–17) 1917–18, Cd. 8938, vol. 10. 122 pp.—(Report, 1917–18) 1918, Cd. 9215, vol. 7. 90 pp.—(Report, 1918–19) 1919, Cmd. 503. 118 pp.—(Report, 1919–20) 1920, Cmd. 1082. 127 pp.

Contain statistics as to receipts from customs and excise duties, quantities of dutiable articles retained for home consumption, customs tariff and excise duties for the year, excise licence duties, customs and excise duties allocated to local taxation accounts, Old Age Pensions, &c. Discussion of these statistics, showing effect of war on consumption and on revenue. Particulars given of legislation during year affecting customs and excise.

Board of Inland Revenue. Annual Reports.—(Report, 1914–15) 1914–16, Cd. 8116, vol. 24. 160 pp.—(Report, 1915–16) 1916, Cd. 8425, vol. 11. 69 pp. — (Report, 1916–17) 1917–18, Cd. 8887, vol. 15. 23 pp. — (Report, 1917–18) 1918, Cd. 9151, vol. 10. 22 pp.—(Report, 1918–19) 1919, Cmd. 502. 21 pp.—(Report, 1919–20), 1920, Cmd. 1083. 100 pp.

Contain statistics, with explanatory comments, of revenue under the various duties.

—— Excess Profits Duty, Statement respecting. I. Proposals as to valuation of Stocks. II. Allowances for wear and tear, depreciation and obsolescence of assets. 1917–18, Cd. 8623, vol. 19. 7 pp.

Contains opinion given by Committee of Consulting Accountants advising the Ministry of Munitions in regard to munitions levy, and memorandum proposed to be issued by Board of Inland Revenue *re* wear and tear, &c.

—— Increase of Wealth (War), Memoranda submitted by Bd. of Inland Revenue to Select Committee on. 1920, Cmd. 594. 47 pp.

Discuss practicability of duty on war wealth, allowances to be granted, method of payment, possible yield, &c. Contains estimate (at June 30, 1919) of increase of wealth, since beginning of war, which would be affected by a Capital Levy. (These memoranda are discussed in evidence before the Select Committee and reprinted in Appx. I of 1920, No. 102, *infra.*)

—— Taxable income, allowances, &c., Estimate of approximate distribution of, among taxpayers. 1919, Cmd. 224. 5 pp.

Gives for 1918–19 table of approximate distribution of estimated amounts of taxable income, &c., among taxpayers, classified according to amounts of their total incomes, with estimated number of incomes in each class, and tax paid by each class.

Commission, Royal. Income Tax, Royal Commission on. Report, 1920, Cmd. 615. 186 pp. 1st to 7th Instalments of Minutes of Evidence. 1919, Cmd. 288–1 to 288–7. 1383 pp. + (Apps.) 223 pp. (numbered consecutively). Index to Evidence. 1919, Cmd. 288–8. 101 pp. (Minutes of Evidence are also published in two vols.,

with Apps. in a separate vol. H.M.S.O. 1920.)

Discusses in detail scope, rates and incidence of income tax, allowances and reliefs, administration, assessment, collection, evasion, &c., and makes recommendations for amendment. Incidentally gives information as to conditions during war, e. g. taxation of weekly wage-earners, tables of income on which tax received for series of years, &c.

Committees. Increase of Wealth (War), Select Committee on. Report, with proceedings of the Committee, Minutes of Evidence and Appendices, Index and Digest of Evidence. 1920, No. 102, 102–Ind. xviii + 317 pp.

Discusses practicability and equity of tax on war wealth and the form it should take, extent of increase of wealth during war, &c.

—— Luxury Duty, Select Committee on. Report, with proceedings of the Committee and Appendices. 1918, No. 101, vol. 4. 51 pp.

Contains proposed schedules of articles to be subject to luxury duty. Full account of proceedings of Committee, with draft reports submitted, showing difficulties in the way of levying such a duty. Evidence not published.

Ministry of Reconstruction. Financial Risks attaching to the holding of Trading Stocks, Committee on. 1919, Cd. 9224, vol. 13.

Vide supra, p. 102.

Treasury. Duties, taxes or imposts, Return of, for 1918–19 (in continuation of No. 434 of 1914). 1919, No. 177. 38 pp.—*Ibid.* for 1919–20. 1920, No. 238. 44 pp.

Give rates of duties, &c., quantities taxed and receipts, for 1918–19 and 1919–20, also summary of receipts, charges of collection and net produce for ten years, and notes to show any changes consequent on acceptance of budget proposals of 1919 and 1920, respectively.

—— Excess Profits Duty, Memorandum explanatory of new clauses relating to, moved by Government on Committee stage of Finance Bill, 1920; and statements as to reliefs already granted by law. 1920, Cmd. 753. 12 pp.

—— Taxes in force, Return showing, for each year since 1910–11. 1917–18, No. 107, vol. 19. 6 pp.

Gives for each year 1911–12 to 1916–17 the principal rates and yield of taxes and excise duties.

¶ *Books and Periodicals :*

Allen, J. E. 'War Budgets,' in *F. R.*, May 1917 (vol. 101), pp. 827–37.

Discusses critically the four war budgets and makes various recommendations.

—— 'A Capital Levy; the Conscription of Wealth,' in *F. R.*, Feb. 1918 (vol. 103), pp. 238–47.

Gives reasons against a capital levy and blames Government for extent of war debt.

—— 'Income Tax Problems,' in *F. R.*, May 1920 (vol. 107), pp. 740–9.

Discusses report of Royal Commission on the Income Tax.

Allen, W. *Vide* MONTGOMERY, R. M., and ALLEN, W., *infra*.

Arnold, Sydney. 'A Capital Levy: The Problems of Realization and Valuation,' in *Econ. Jl.*, June 1918 (vol. 28), pp. 157–66.

Discusses two objections to a capital levy (difficulties of realization and valuation) and methods of meeting them.

Binnie, A. and **Davie, J.** The Services and Income Tax, 1917–18. Gee & Co. 1917. 11 pp.

Explains clauses of Income Tax regulations of interest to soldiers, sailors, and Red Cross workers.

Browne, J. Balfour. 'A Menace

to Peace,' in *N. C.*, Nov. 1918 (vol. 84), pp. 905–20.

Discusses proposals for a tax on capital and criticizes it as a discouragement to thrift and impossible to levy with fairness.

Burrows, Roland. The New Income Tax in relation to the War and Business. Newberry & Pickering. 1915. 32 pp.

A legal explanation of the income tax provisions (rates 1914–15) as applied to businesses.

Carter, G. R. and **Houghton, H. W.** 'The Income Tax on Wages by Quarterly Assessment,' in *Econ. Jl.*, Mar. 1918 (vol. 28), pp. 30–42.

Discusses some objections to the tax, from personal investigations as to the effect on wage-earners, attributing much unrest to it.

Davie, J. *Vide* BINNIE, A. and DAVIE, J., *supra.*

Edgeworth, F. Y. A Levy on Capital for the Discharge of Debt. Clarendon Press, Oxford. 1919. 32 pp.

Makes theoretical inquiry into the advisability and methods of imposing a levy on capital. Examines critically various recent theories and advocates further study before adopting the scheme.

Edinburgh Review. Jan. 1918 (vol. 227), pp. 146–65. 'The Finance of the War.' (Editorial article.)

Discusses and criticizes war budgets and excessive borrowing.

Furniss, H. Sanderson (Ed.). The Industrial Outlook. Chatto & Windus. 1917. ix + 402 pp.

Pp. 311–54, 'Industry and Taxation,' by W. H. Pringle. Discusses critically methods of war finance and suggests a higher proportion of taxation to loans. Discusses probable post-war resources of U.K. and, with special reference to changed industrial and financial conditions during war, methods for raising revenue without injuring production.

Gibson, A. H. 'The Excess Profits Tax: Has the Yield been greatly underestimated?', in *Bankers' Magazine*, Dec. 1915 (vol. 100), pp. 726–31.

Makes a detailed statistical survey of the probable yield from the tax for current Budget year and suggests that Budget estimate is too low.

Gully, H. J. Income Tax up to date. An Annual Manual, 1915–16, &c. *Financial News.*

Useful manuals, giving rules and regulations for current income-tax year, an explanation of Excess Profits Duty, and tables showing amount of tax payable on different incomes. Annuals for 1917–18 and 1918–19 contain tables comparing rates of last nine and ten years respectively.

Haig, R. M. Taxation of Excess Profits in Great Britain. *Amer. Econ. Rev. Suppt.*, Dec. 1920 (vol. 10). xii + 244 pp.

Traces origin of Act (development of demand for profits control) and its evolution in Parliament. Discusses its interpretation and procedure, e. g. rates of duty imposed, allowances, method of determining pre-war standard and value of invested capital, administration methods, fiscal and economic consequences (yield of tax, effect on business and prices). Discusses briefly future of the tax in Great Britain. Discusses virtues and defects of the Act and compares with American system.

Hobson, J. A. 'The Coming Taxation,' in *C. R.*, Sep. 1915 (vol. 108), pp. 284–95.

Discusses need for reduction of consumption, and forms of taxation to be imposed.

—— Taxation in the New State. Methuen. 1919. xii + 254 pp.

Considers in detail principles for reform in taxation and their applicability to post-war situation, dealing especially with merits of a levy on war wealth and a general levy on capital. Makes suggestions with regard to relations of Imperial to local taxation.

Hook, A. 'A Tax on Capital and Redemption of Debt,' in

Econ. Jl., June 1918 (vol. 28), pp. 167–75.

Provides counter-arguments to various objections to a tax on capital.

Houghton, H. W. *Vide* CARTER, G. R., and HOUGHTON, H. W., *supra.*

Jennings, H. J. 'The Third War Budget,' in *N. C.*, Oct. 1915 (vol. 78), pp. 755–66.

Discusses provisions of Budget.

—— 'The Next Budget—and After,' in *F. R.*, Jan. 1920 (vol. 107), pp. 118–26.

Discusses critically Budget estimate for current year, and methods for reducing national debt. Objects to a capital levy and urges deflation.

Langdon, A. M. The Excess Profits Duty and the Excess Mineral Rights Duty. Stevens & Haynes. 1918. 3rd. ed. viii + 128 pp.

Reproduces Parts III of Finance Acts 1915 (No. 2), 1916 and 1917, with explanatory introduction and notes.

Lawrence, F. W. Pethick. A Levy on Capital. Geo. Allen & Unwin. 1918. 94 pp.

Discusses war expenditure and finance, the state of pre-war wealth and changes experienced since 1914. Explains method of reducing war debt by a capital levy and estimates results, refuting various possible objections to a levy.

Lennard, R. 'The Taxation of Luxury,' in *Econ. Jl.*, Sep. 1918 (vol. 28), pp. 287–99.

Discusses case for luxury taxes; describes French and German schemes.

Mallet, Sir Chas. E. 'The Deficit Ahead,' in *C. R.*, Ap. 1918 (vol. 113), pp. 369–74.

Discusses practicability and efficacy of a levy on capital and other expedients to pay off war debt.

Mallock, W. H. 'The Cost of War. II. The Limits of Super-taxation,' in *N. C.*, Sep. 1915 (vol. 78), pp. 702–13.

Discusses various schemes of taxation and shows that super-taxation, either direct or indirect, would be inadequate in its results and unpractical.

Marriott, J. A. R. 'War Finance: the Fourth War Budget,' in *N. C.*, May 1916 (vol. 79), pp. 1124–42.

Discusses merits and shortcomings of the Budget.

—— 'War Finance: the fifth War Budget,' in *N. C.*, June 1917 (vol. 81), pp. 1366–81.

Discusses details of the Budget, whether sufficient proportion is being raised by taxation, and whether machinery of control over expenditure is adequate.

—— 'The Conscription of Wealth,' in *N. C.*, Feb. 1918 (vol. 83), pp. 248–74.

Discusses equality of sacrifice and concludes that income-tax payer has borne main burden of financial cost of war.

Miller, T. Frame. (1) 'Are you liable for Excess Profits?', in *System*, Nov. 1917 (vol. 32), pp. 311–14. (2) 'What about Excess Profits?', in *Ibid.*, Dec. 1917, pp. 377–81. (3) 'What are your Profits?', in *Ibid.*, Jan. 1918 (vol. 33), pp. 35–9.

Explains principles of the duty and the various ways of computing excess profits.

Mitchell, A. A. 'A Levy on Capital,' in *Econ. Jl.*, Sep. 1918 vol. 28), pp. 268–75.

Argues in favour of increased income-tax to meet post-war debt and criticizes arguments of Professor Pigou (*infra*) and A. Hook (*supra*) in favour of a capital levy.

Montgomery, R. M. and **Allen, W.** Excess Profits Duty and Excess Mineral Rights Duty under Finance (No. 2) Act, 1915. Butterworth & Co., and Shaw & Sons. 1st ed. 1916. xix + 74 pp. 2nd ed. 1919. xxxiv + 136 pp.

First edition reproduces Finance Act of 1915, with notes. 2nd ed. reproduces also Finance Acts of 1916, 1917, 1918, with notes; original notes much enlarged.

Myers, H. D. Income Tax for Business Men. Simpkin, Marshall, Hamilton, Kent & Co. 1916. xi + 154 pp.

An explanatory survey, with special reference to various deductions, claims and concessions and recent legislation in connexion with war, including Excess Profits Duty. Comments critically on system of various taxes.

Pegler, E. C. *Vide* SPICER, E. E., and PEGLER, E. C., *infra*.

Pigou, A. C. 'A Special Levy to discharge War Debt,' in *Econ. Jl.*, June 1918 (vol. 28), pp. 135–56.

Discusses merits of alternative methods of discharging war debt by taxation.

Pringle, W. H. 'Industry and Taxation.' *Vide* under FURNISS, H. SANDERSON, *supra*.

Quail, Jesse. 'War Taxation and the Investor,' in *F. R. R.*, Mar. 1915 (vol. 10), pp. 49–62.

Reviews changes in incidence of taxation since 1907, criticizing introduction of differential treatment of earned and unearned incomes, with special reference to war conditions. Concludes in favour of introduction of a tax on wages.

—— 'The Proposed Levy on Capital,' in *F. R. R.*, Sep. 1918 (vol. 13), pp. 274–91.

Argues against a levy on capital, showing the difficulties and disadvantages of such a tax.

Samuel, Herbert. 'The Taxation of the Various Classes of the People,' in *Jl. Roy. Stat. Soc.*, Mar. 1919 (vol. 82), pp. 143–82.

Discusses taxation in 1918–19 compared with 1913–14 and 1903–4.

Sanders, Wm. The Practice and Law of Income Tax and Super Tax. Gee & Co. 2nd ed. 1916. xxxv + 40 pp.

Explains, with constant reference to legal decisions, legislation relating to income tax and super tax.

—— The Law and Practice of Excess Profits Duty. Gee & Co. 2nd ed. 1918. xii + 276 pp.

Explains, by reference to legal discussions, &c., clauses of Finance Acts, 1915 (No. 2), 1916 and 1917, relating to Excess Profits Duty. Deals also with the Munitions Levy.

Scott, W. R. 'Some Aspects of the Proposed Capital Levy,' in *Econ. Jl.*, Sep. 1918 (vol. 28), pp. 247–67.

Considers, from standpoint of equity, various aspects of the levy on capital for payment of war debt. Criticizes theories of Prof. Pigou (*vide supra*).

Snelling, W. E. Excess Profits Duty. Sir I. Pitman & Sons. 6th ed. 1920. xx + 496 pp.

Explains, with reproduction of reports of legal decisions, clauses of Finance Acts relating to Excess Profits Duty (including mineral rights) and clauses of Munitions of War Acts relating to levies.

—— Income Tax and Super Tax Practice. Sir I. Pitman & Sons. 4th (interim) ed. of Pt. I. 1920. vii + 188 pp.

A guide to income tax practice in accordance with terms of Finance Act, 1920. Includes tables (pp. 131, &c.) showing taxes chargeable on all incomes and categories.

Soward, Sir A. W. and **Willan, W. E.** The Taxation of Capital. Waterlow & Sons. 1919. xvi + 408 pp.

Discusses mainly future possibilities. Alludes to certain post-war estimates of British capital.

Spicer, E. E. Income Tax and the War. H. Foulkes Lynch & Co. 1915. 13 pp.

Explains terms of Finance Act, 1914 (session 2).

—— and **Pegler, E. C.** The Excess Profits Duty and Profits of Controlled Establishments. H.

Foulkes Lynch & Co. 1920. xiv + 224 pp.

Gives a legal explanation of terms of Excess Profits Duty legislation and method of computation of profits.

Stamp, J. C. 'The Taxation of Excess Profits Abroad,' in *Econ. Jl.*, Mar. 1917 (vol. 27), pp. 26–37.

Examines the schemes in force in Sweden, Denmark, Italy, Germany, Austria, Russia, Canada, New Zealand, Switzerland, U.S.A.; discusses their origin and character, scope, principle, and incidence. A useful account for comparison with British methods.

—— 'Taxation of Capital and Ability to Pay,' in *Ed. R.*, Oct. 1919 (vol. 230), pp. 371–86.

Discusses old and recent theories relating to a tax on capital and draws conclusions as to respective merits of capital and income taxation.

—— 'The Special Taxation of Business Profits in relation to the Present Position of National Finance,' in *Econ. Jl.*, Dec. 1919 (vol. 29), pp. 407–27.

Shows disadvantages of increased income tax or levy on capital. Examines some recent theories in connexion with taxing of surplus profits. Discusses difficulties connected with the probable effects of the tax (on prices, production, business initiative and thrift, &c.), and various ways in which they could be overcome, with special reference to American methods of excess profits taxation.

Tolley, C. H. Income Tax, Super Tax, Excess Profits Duty, &c. Annual. 1916, &c. Waterlow & Sons.

Consists of charts of rates, allowances and abatements for 1916–17, &c., and series of previous years. Second and subsequent issues contain tables showing, *inter alia*, allowances to persons serving in H.M. Forces, &c., concessions to holders of War Loan Stock, the law relating to foreigners, &c.

Trades Union Congress Parliamentary Committee. Quarterly Report, Dec. 1915. (*Vide supra*, p. 448.)

Contains (pp. 5–10) Report of Conference at Treasury between representatives of Labour organizations and employers' federations *re* payment by wage-earners of income tax. (Reprinted in abridged form in *Report of Trades Union Congress*, 1916, pp. 138–44.)

Underhay, F. G. Income Tax. Ward, Lock & Co. 1920. 331 pp.

An explanatory summary of the law of income tax, super-tax and excess profits duty under the Finance Act, 1919, and previous War Acts.

Webb, Sidney (Ed.). How to Pay for the War. Fabian Research Dept., and Geo. Allen & Unwin. 1916. viii + 278 pp.

Pp. 219–78, 'Revolution in the Income Tax.' Discusses yield of the income tax, objections to the tax, its present incidence and suggestions for an improved method, especially as regards prevention of evasion. Explains and urges a levy on capital to repay war debt.

Willan, W. E. *Vide* Soward, Sir A. W. and Willan, W. E., *supra*.

Zorn, John. Thoughts on a Capital Levy. St. Clement's Press. 1920. 50 pp.

Considers ways of abolishing war debt, concluding in favour of a capital levy, and explaining proposed incidence of such a levy.

VIII. PRICES AND COST OF LIVING [1]

A. REGULATION AND COURSE OF PRICES (GENERAL)

℄ *Acts of Parliament :*

Profiteering Act, 1919. 9 & 10 Geo. V. c. 66. 4 pp.

Ibid. (Continuance) Act, 1919. 9 & 10 Geo. V. c. 87. 4 pp.

Ibid. (Amendment) Act, 1920. 10 & 11 Geo. V. c. 13. 5 pp.

℄ *Official Publications :*

Board of Trade. Prices of Commodities, causes of increase of, since the beginning of the war, Reports of Departmental Committee on.

Vide supra, p. 179. 1st Report contains statistics of increases in price of food, clothing, coal, &c.

—— Production, Price Movements and Currency Expansions, Statements of.

Vide supra, p. 545.

—— Profiteering Acts.[2] Biscuit Trade, prices, costs, and profits at all stages of, Report by Standing Committee on Investigation of Prices on. 1920, Cmd. 856. 7 pp.

Vide supra, p. 187.

—— *Ibid.* Clogs, cost of production, prices, &c. of, Findings by a Committee on. 1920, Cmd. 541. 4 pp.

Discusses question of prices (post-war) and finds that consumer is sufficiently protected.

—— *Ibid.* Wool, Tops, and Yarns, cost of production and distribution of, at all stages and profits arising therefrom, Findings by a Committee on. 1920, Cmd. 535. — Worsted Yarns, Findings by Committee on. 1920, Cmd. 550. — Yorkshire Tweed Cloths, prices, costs, and profits of manufacture of, Report on an investigation into. 1920, Cmd. 858.

Vide supra, p. 289.

—— *Bd. of Trade Jl.* (1) Jan. 17, 1918 (vol. 100), p. 88; Jan. 15, 1920 (vol. 104), pp. 76–7; Jan. 13, 1921 (vol. 106), p. 34; 'Index Numbers of Wholesale Prices.' (2) Jan. 20, 1921, pp. 61–2. 'The Board of Trade Index Number : Revision of the Basis.'

(1) Give for a series of years index numbers for 47 articles classified in four groups, coal and metals, textiles (raw materials), food, drink and tobacco, and miscellaneous. (2) Explains method by which index number has hitherto been calculated and new method to be adopted.

—— *Labour Gazette.* (*Vide supra*, p. 365.)

Contains, monthly, articles giving retail prices of principal articles of food in large towns and in small towns and villages and (from June 1916) percentage increase (without details) in all items entering into working-class family budget (food, rent, clothing, fuel, light, &c.); also monthly

[1] For regulation of prices generally *vide* also under GOVERNMENT REGULATION AND CONTROL, § II, B, *supra*, pp. 81–96. For regulation and course of prices in each industry *vide* the various sub-headings under COMMERCE AND INDUSTRY, § III, *supra*, pp. 135–332. For relation between prices and currency *vide* FINANCE: BANKING AND CURRENCY, § VII, B, *supra*, pp. 545–54.

[2] For other reports under the Profiteering Acts *vide* under TRADE COMBINATIONS, § III, A, 4, a, *supra*, p. 123–7.

(up to 1917) statistics of prices of bread, wheat and flour, from various sources. Article in Jan. each year entitled 'Employment, wages, prices, and disputes,' reviewing course of prices in past year and giving index numbers of wholesale prices for various articles for series of years.

Vide also articles entitled 'Wholesale prices in U.K. in 1914' (May 1915, vol. 23, pp. 158–9); 'Course of retail prices of food in U.K. 1914–17' (Dec. 1917, vol. 25, pp. 437–8); 'Retail prices during the war' (Sep. 1918, vol. 26, p. 346 and Aug. 1919, vol. 27, pp. 318–19); 'Retail prices and statistics: Scope and method of compilation' (Mar. 1920, vol. 28, pp. 118–20), describing method of collection and compilation of information and items included; 'Retail prices of clothing, 1914–21' (Ap. 1921, vol. 29, pp. 178–9), giving retail prices of clothing purchased by working classes, and describing methods by which percentage increases in price of clothing are calculated and articles included.

Committees. High Prices and Profits, Reports of Select Committee on. 1919, Nos. 166, 234. (*Vide supra*, p. 180).

Special report contains evidence of Sir A. Geddes with regard to Government's intention of introducing legislation against profiteering and machinery proposed. Report contains evidence of Sir A. Geddes and Mr. McCurdy describing machinery erected under Profiteering Act and working of the Act.

Ministry of Labour. *Labour Gazette.* *Vide* BOARD OF TRADE, *supra.*

—— *The Month's Work*, Mar. 1920 (vol. 2), p. 164. 'The Cost of Living: How it is calculated.'

Deals with statistics published monthly in *Labour Gazette.* Explains methods of collection and compilation, what items are included, &c.

Ministry of Reconstruction. Reconstruction Problems. No. 16. Prices during the War and After. H.M.S.O. 1919. 12 pp.

Discusses in a general way causes of increase of prices during war and prospects for future.

Supreme Economic Council. *Monthly Bulletin of Statistics.* H.M.S.O. Monthly from July 1919.

Gives index numbers of wholesale prices and of retail prices of food in U.K. and various other countries.

¶ *Books and Periodicals:*

Bowley, A. L. Prices and Wages in U.K., 1914–20. (*Vide supra*, p. 403.)

Chaps. I–V and VII (pp. 1–86, 105–10) and Apps. I and II deal with prices. A detailed statistical analysis, with tables and graphs, is given of movements of prices during years named (wholesale prices, food and other retail prices, change in cost of living, comparison of wholesale and retail food prices, relation between wages and cost of living).

Carnegie Endowment for International Peace. Prices and Price Control in Great Britain and U.S.A. during the World War. *Vide supra*, p. 94 (under LITMAN, SIMON.)

—— Prices and Wages in U.K., 1914–20. *Vide* BOWLEY, A. L., *supra.*

Charity Organisation Review, Jan., Feb., Ap., 1917 (N.S. vol. 41), pp. 13–21, 50–66, 157–66. 'Cost of Living in London for Women Workers.'

Gives details supplied by women workers (mainly social workers) as to cost of living (rents of lodgings, expenditure on food, &c.). Particulars given are results of inquiries made by a committee of experienced women social workers in autumn of 1916.

Firth, A. S. 'An Analysis of the Increased Cost of Clothing Materials.'

Vide supra, p. 231.

Gollancz, Victor. 'The Cost of Living and the Labour Gazette

Figures,' in *Progress*, Jan. to Mar. 1920 (vol. 15), pp. 4–7.

Analyses the figures in order to show that the increase in the cost of living of the unskilled labourer is greater than that stated.

Jones, J. H. 'Rising Prices,' in *Glasgow Herald, Supplement on Shipbuilding, Engineering, and Commerce in 1916* (Dec. 28, 1916), p. 34.

Discusses *Economist* index numbers and retail prices given in *Labour Gazette*, and compares rises with wage movements. Comments on causes and effects of price movements and on inflation in connexion with prices. Discusses post-war prospects.

Labour Research Department. Wages and Prices during the War.

Vide supra, p. 405.

Litman, Simon. Prices and Price Control in Great Britain and U.S.A. during the World War.

Vide supra, p. 94.

Money, Sir Leo Chiozza. 'The Fight against Cheapness,' in *E. R.*, Dec. 1920 (vol. 31), pp. 530–5.

Censures the resentment shown by traders in U.S.A. and Great Britain against falling prices.

Osborn, C. 'The Cost of Living,' in *C. O. R.*, July 1920 (N.S. vol. 48), pp. 3–15.

Discusses increase in prices, relation of wages to cost of living, &c. Shows why increase is greater for the working classes than is indicated in official figures. Quotes a budget of a working woman, comparing prices in Aug. 1914 and June 1920.

Paish, Sir Geo. (Editor of *Statist*). Articles on 'Wholesale Prices of Commodities in 1915 [1916, 1917, 1919],' in *Jl. Roy. Stat. Soc.*, Mar. 1916 (vol. 79), pp. 189–206; Mar. 1917 (vol. 80), pp. 289–309; Mar. 1918 (vol. 81), pp. 334–49; July 1920 (vol. 83), pp. 628–45.

Discusses *Statist* index numbers.

People's Year Book for 1921. Co-operative Wholesale Society, Manchester.

Gives (pp. 34–5) the average price of certain groceries, the cost of average weekly family order of 21½ lb., and purchasing power of £1 on the same basis.

Pigou, A. C. 'The Control of Prices during the War.'

Vide supra, p. 95.

Postgate, Margt. I. Wages and Prices during the War.

Vide supra, p. 405 (under LABOUR RESEARCH DEPT.).

Statist, Editor of. *Vide* PAISH, SIR GEORGE, *supra*.

Wood, Frances. 'The Increase in the Cost of Food for different classes of society since the outbreak of War,' in *Jl. Roy. Stat. Soc.*, July 1916 (vol. 79), pp. 501–8.

Comments on Board of Trade figures.

¶ *Trade Journals :*

British Trade Journal. (*Vide supra*, p. 107.)

Gives each month a list of prices current of forty-five classes of commodities.

Economist. Weekly.

Reviews prices of chief commodities (food, raw materials, and manufactures of all kinds). Weekly list of current prices of practically all commodities. Monthly index number of wholesale prices (cereals and meat, other food products, textiles, minerals and miscellaneous).

Statist. Weekly.

Gives monthly index numbers, based on average wholesale prices of forty-five commodities. Separate index numbers also given for vegetable food, animal food, sugar, coffee and tea, minerals, textiles, sundries, silver.

B. BUDGETS [1]

¶ *Official Publications :*

Board of Agriculture. Agricultural Wages Board. Financial Results of Occupation of Agricultural Land and Cost of Living of Rural Workers, Report of Committee on. 1919, Cmd. 76. (*Vide supra*, p. 136.)

Section II and Conclusions. Deals with cost of living. Gives average prices of foodstuffs, fuel and light, clothing, cleaning materials, 1914 to 1918, with budgets. Appendices contain, *inter alia*, memorandum by Prof. Bowley on increase in cost of food June 1918 to Jan. 1919, and tables on nutritive value of dietary.

—— Wages and Conditions of Employment in Agriculture. Vol. 2. Reports of Investigators. 1919, Cmd. 25. (*Vide supra*, p. 463.)

Several investigators give budgets of agricultural labourers. These budgets were handed to Committee of Agricultural Wages Board and summarized in their report (*supra*).

Home Office. Police Service of England, Wales, and Scotland, Report of Committee on. Pt. I. 1919, Cmd. 253. (*Vide supra*, p. 401.)

P. 10 and Appx. II, pp. 24–9. Gives detailed budgets of 23 sergeants and 35 constables in different districts.

Treasury. Cost of Living to Working-classes, increase since 1914 in, Report of Committee on. 1918, Cd. 8980, vol. 7. 28 pp.

Gives estimate of average weekly expenditure, 1914 and 1918, based on budgets of urban working-class families. Discusses general counter-balancing factors. Appx. gives details of expenditure on items selected.

¶ *Books and Periodicals :*

Bowley, A. L. Prices and Earnings in Time of War. Oxford Pamphlets, 1914–15. Oxford University Press. 1915. 23 pp.

Discusses changes in prices, wages and employment since outbreak of war. Gives estimate of budgets of London poor, labourer and artisan in provincial towns, before war and in Feb. 1915.

—— 'The Measurement of Changes in the Cost of Living,' in *Jl. Roy. Stat. Soc.*, May 1919 (vol. 82), pp. 343–72 (with discussion).

Discusses budgets collected for Committees on Cost of Living (Cmd. 76 and Cd. 8980, *supra*). Criticizes *Labour Gazette* index numbers.

Carnegie U.K. Trust. Report on the Physical Welfare of Mothers and Children. Vol. 4. Ireland. By E. Coey Biggar. (*Vide supra*, p. 23.)

Appx., p. 195. Gives table showing weekly budgets of five labourers in Tralee Urban District, Oct. 1916.

Charity Organisation Review, June 1915 (N.S. vol. 37), pp. 322–3.

Gives weekly budget of a labourer's wife, Mar. 1915, with corresponding prices for Mar. 1914.

Ferguson, Margaret. 'The Family Budgets and Dietaries of Forty Labouring Class Families in Glasgow in War-time,' in *Proc. Royal Soc. Edinburgh*, 1916 (vol. 37), pp. 117–36.

Compares, in percentages, the periods 1915–16 and 1911–12 in regard to income and expenditure (on food, rent, &c.). Discusses alterations in diet, energy value, &c. A note added Mar. 1917 compares diets of the same families after Food Controller's appeal for voluntary rationing.

Rowntree, B. Seebohm. The Human Needs of Labour. Thos. Nelson & Sons. 1918. 168 pp.

[1] *Vide* also PRICES: GENERAL, § A, *supra*.

An account of an investigation in regard to 2,161 families in York. Discusses food requirements and cost of adequate minimum wage (on basis of pre-war prices). Gives particulars for 30 families of expenditure on food, and its nutritive value, in spring of 1915.

Vesselitsky, V. de. Expenditure and Waste: A Study in War-time. Ratan Tata Foundation (University of London). G. Bell & Sons. 1917. 64 pp.

Discusses, in the light of budgets kept for the author between Nov. 1915 and Feb. 1916, the economic effects of the war on working-class homes in East End of London.

IX. MISCELLANEOUS

A. WAR RELIEF MEASURES

I. WAR CHARITIES [1]

¶ *Acts of Parliament :*

Police, Factories, &c. (Miscellaneous Provisions) Act, 1916. 6 & 7 Geo. V. c. 31.

Sec. 5 provides for regulation of street collections.

War Charities Act, 1916. 6 & 7 Geo. V. c. 43. 6 pp.

Ibid. (Scotland) Act, 1919. 9 Geo. V. c. 12. 1 p.

¶ *Official Publications :*

Statutory Rules and Orders, 1916, 1917, 1918. (*Vide supra,* p. 85.)

Contain regulations made with regard to War Charities and street collections.

Charity Commission. Annual Reports.—(Report, 1916) 1917–18, Cd. 8521, vol. 8. 47 pp.—(Report, 1917) 1918, Cd. 9008, vol. 7. 22 pp.—(Report, 1918) 1919, Cmd. 82. 47 pp.—(Report, 1919) 1920, Cmd. 621. 34 pp.

Contain accounts of the work of the Commissioners under the War Charities Act, regulation of Flag Days, &c.

—— War Charities Act, 1916. Charities registered in England and Wales under the Act up to Dec. 31, 1918. H.M.S.O. 1919. 221 pp.

Home Office. War Charities, Report of Committee on. 1916, Cd. 8287, vol. 6. 7 pp.

Quotes instances of fraud and mismanagement and recommends registration.

Scotland. Local Government Board for Scotland. Charities registered in Scotland under the War Charities Act, 1916, up to Jan. 31, 1917. H.M.S.O. 1917. 10 pp.—Supplementary list, Feb. 1 to Dec. 31, 1917. 1918. 8 pp.

War Office. Camps' Library, Report of work of. 1919, Cmd. 174. 15 pp.

Gives history of the activities of the Camps' Library from Oct. 1914 to Mar. 1919.

—— Dept. of Director-General of Voluntary Organizations, Report on national scheme of Co-ordination of Voluntary Effort resulting from formation of. (With Apps. I and II). 1919, Cmd. 173. 12 pp.

Describes unorganized state of work parties, &c., before formation of Department, and steps taken by Department to co-ordinate voluntary efforts and arrange for supply of comforts, books, &c., to troops and hospitals.

—— *Ibid.* Apps. III and IV. Being a detailed Record of the Work of the Recognized Associations. H.M.S.O. 1920. 63 pp.

Gives résumé of work of each recognized committee and association, with names of committee and summary of articles provided.

[1] For administration of National Relief Fund, *vide* under § V, A, 2, a, *supra,* pp. 376, 378.

A collection of printed and M.S. material relating to the administration of War Charities is to be seen at the Imperial War Museum Library, Women's Work Section (*vide* footnote on p. 473, *supra*). This includes Reports, leaflets, press-cuttings, &c., dealing with the work of the Professional Classes War Relief Council.

℄ *Periodicals :*

Darwin, Leonard. 'Distress amongst the Professional Classes,' in *C. O. R.*, May 1917 (vol. 41), pp. 180–91.

Gives an account of the work of the Professional Classes War Relief Council. (Writer is Chairman of the Council.)

Price, E. C. (1) 'The War Charities Report,' in *C. O. R.*, Aug. 1916 (vol. 40), pp. 47–53. (2) 'War Charities and Street Collections,' in *Ibid.*, Dec. 1917 (vol. 42), pp. 236–41.

(1) Gives an account of the demand for registration of war charities and discusses Report of War Charities Committee. (2) Describes some instances of fraud and mismanagement in connexion with war charities and in organization of flag days, showing difficulties in registration of charities.

2. WAR REFUGEES [1]

℄ *Official Publications :*

Board of Education. Annual Report for 1914–15. (*Vide supra*, p. 50.)

Gives (pp. 17–18) particulars as to arrangements for education of Belgian children.

Home Office. Conditions prevailing in Coal-mining Industry, Departmental Committee on. (*Vide supra*, p. 310.)

Evidence, Qs. 82–7, 372–4, 377–80, 430, 800–4, 846–69, deals with employment of Belgians in mines.

Ireland. Local Government Board for Ireland. Annual Reports for 1914–15 to 1918–19. (*Vide supra*, p. 95.)

Contain short accounts of measures taken in Ireland for reception and employment of Belgians.

Local Government Board (England and Wales). Annual Reports for 1914–15 to 1918–19. (*Vide supra*, p. 97.)

Contain short accounts of steps taken for reception and employment of refugees, list of societies and funds for assistance of Belgians (Report, 1915–16), and account of repatriation measures (Report, 1918–19).

—— Reception and Employment of Belgian Refugees in this country, Departmental Committee on questions arising in connexion with. 1st Report and Minutes of Evidence. 1914–16, Cd. 7750, 7779, vol. 7. 62 pp., 224 pp. (No further report issued.)

Deals with steps taken for reception and registration of refugees, openings for employment, numbers and constitution of Local Refugee Committees, education of children, &c. Makes recommendations as to conditions on which refugees should be employed.

—— Special work of L.G.B. arising out of the war, Report on. 1914–16, Cd. 7763, vol. 25. (*Vide supra*, p. 377.)

Contains information as to steps taken for reception, employment and registration of refugees in the early part of the war.

[1] A valuable collection of printed and M.S. material (Reports, pamphlets, press-cuttings, correspondence, &c.) dealing with the reception, care and employment of Belgian refugees, and work for Belgian soldiers, is to be seen at the Imperial War Museum Library, Women's Work Section (*vide* footnote on p. 473, *supra*). The collection includes official reports, memoranda, &c., reports and papers of the War Refugees Committee and of various organizations for employment of Belgians, relief funds, &c. It also includes printed or M.S. reports from some 250 local committees, received in answer to a circular sent out by the Women's Work Section asking for information as to the scope of their work, methods employed, numbers helped and results, financial position, the local organization's experience and general impression of the Belgians, &c.

Metropolitan Asylums Board. Annual Reports for 1914 to 1919.

Contain short accounts of arrangements made by the Board for reception and employment of refugees, care of sick, &c.

—— Four Years in a Refugee Camp: being an Account of the British Government War Refugees Camp, Earls Court, London, 1914–19. Compiled under direction of G. A. Powell, officer-in-charge. Baynard Press, Sanders Phillips & Co. 1920. 84 pp.

An illustrated account of the arrangements made at Earls Court for reception, employment, health, &c., of refugees.

Ministry of Health. Reception and Care of the Belgian Refugees, Report on work undertaken by British Government in. H.M.S.O. 1920. 113 pp.

Gives an account of arrangements made from outbreak of war for reception of refugees, registration, housing, employment, maintenance, education, care of sick, clothing, organization in Holland for selection of refugees to be sent, transport, arrangements in Scotland and Ireland, recruiting of Belgians, arrangements for Belgian soldiers on leave and convalescent, supervision of charitable appeals, repatriation, &c. Apps. contain accounts of expenditure, brief reports of typical Local Committees, account of work of the Central Register, circulars issued by L.G.B., &c.

Scotland. Local Government Board for Scotland. Annual Reports. (*Vide supra*, p. 98.)

Reports for 1915, p. xxxii, and 1916, p. viii, contain brief references to arrangements made for assistance to Belgian refugees in Scotland.

¶ *Books and Periodicals:*

Book of Belgium's Gratitude. John Lane. 1916. xv + 395 pp.

A collection of articles by representative Belgians, in French (with translations), giving laudatory accounts of the provision made by Great Britain, America and other countries, in reception, education, &c., of Belgian refugees, relief in Belgium, &c.

British Medical Journal. Weekly.

Contains, *passim* (especially in 1914 and 1915), references to assistance given to Belgian doctors and pharmacists among refugees and in Belgium.

Campbell, H. Belgian Soldiers at home in U.K. Issued by permission of L.G.B. Saunders & Cullingham. Dec. 1917. 95 pp.

Gives an account, in French and English, of measures taken for reception of Belgian soldiers on leave, transport arrangements, military and police requirements, employment, training of disabled, care of wounded, &c. Author is Transport Superintendent of the War Refugees Committee.

Catholic Social Guild. How to help the Belgian Refugees. 1915. 16 pp.

Makes suggestions as to methods of providing hospitality, facilities for religious practice, diet, &c. Mentions some of the agencies dealing with Belgians.

Condition of the Belgian Workmen now Refugees in England. [Anon.]. T. Fisher Unwin. 1917. 16 pp.

Refers to communication in *Kölnische Zeitung* on 'Enslavement of Belgians in England'. Gives information obtained by Belgian Dept. of Records in London *re* conditions of employment of Belgian workmen. Describes work of the Belgian Labour Dept. and Official Belgian Committee.

Hatch, Ernest. 'Belgian Refugees in U.K.,' in *Q. R.*, Jan. 1916 (vol. 225), pp. 188–214.

Describes measures taken to deal with refugees.

Jastrzebski, T. T. S. de. 'The Register of Belgian Refugees,' in *Jl. Roy. Stat. Soc.*, Mar. 1917 (vol. 80), pp. 133–58 (with discussion).

Describes compilation of register and gives statistics of number of refugees, occupations, how far representative of general population of Belgium, &c.

Lancet. Articles by special Sanitary Commissioner. (1) Sep. 26, 1914, pp. 816–18. 'The Landing of the Refugees.' (2) Oct. 3, 1914, pp. 867–8. 'The Refugees at Alexandra Palace.' (3) Oct. 17, 1914, pp. 960–1. 'The Belgian Refugees: The Question of the Professional Classes.' (4) Dec. 12, 1914, p. 1377. 'The War Refugees' Camp at Earl's Court.'

(1) (2) and (4) describe arrangements made at Tilbury for reception and medical inspection, accommodation at Alexandra Palace, health of refugees, &c., arrangements at Earl's Court; (3) discusses need for different provision for the educated among the refugees.

The *Lancet* also contains, *passim*, articles and letters on assistance to Belgian doctors among refugees and in Belgium.

Lugard, Lady. 'The Work of the War Refugees Committee,' in *Jl. Roy. Soc. Arts*, Mar. 26, 1915 (vol. 63), pp. 429–39. (Reprinted as a pamphlet. G. Bell & Sons. 1915. 41 pp.)

Deals with reception of refugees in early days of the war.

—— Reports on Hospitality to Belgian Refugees during the Great War, 1914–19. G. Bell & Sons. 41 pp. + Apps. (85 pp.)

Contains reprint of address given to Roy. Soc. of Arts (*vide supra*), also Reports and Statements of Accounts of the Lady Lugard Belgian Hospitality Committee up to Ap. 14, 1919.

Nature, Nov. 26, 1914 (vol. 94), pp. 340–1. 'Belgian Professors and Students at Cambridge.' — *Ibid.*, Dec. 24, 1914, pp. 461–2. 'The Education in London of Refugees from Foreign Universities.'

Give accounts of provision made by Universities of Cambridge and London for reception and education of Belgian students.

Radford, M. Our Friends the Belgians: Sketches of Belgian Life in England. Arthur H. Stockwell. (?) 1921. 103 pp.

Sketches of life in a Belgian colony managed by the author.

Sellers, Edith. 'On the Entertaining of Refugees,' in *N. C.*, June 1915 (vol. 77), pp. 1371–83.

From her experience of work among the refugees, describes cases of failure in entertaining of Belgians and causes. Criticizes Government policy with regard to employment of Belgians.

—— 'On the Providing of Work for Refugees,' in *N. C.*, Oct. 1915 (vol. 78), pp. 837–50.

Quotes cases of refusal of refugees to work. Criticizes policy of Local Committees.

War Refugees Committee. 1st Report, Aug. 1916. 68 pp. 2nd Report, Dec. 1917. 82 pp. 3rd and Final Report. May 1919. 74 pp. Crowther & Goodman (printer).

Contain information as to arrangements made for reception of refugees, transport, housing, employment, maintenance, education, provision for sick, receipts and expenditure, &c.

B. CENSORSHIP

℄ *Official Publications:*

War Office. Censorship, Memorandum on. 1914–16, Cd. 7679, vol. 39. 5 pp.

Describes principles on which Cable and Postal Censorship and Press Censorship are conducted.

—— Official Press Bureau, Memorandum on. 1914–16, Cd. 7680, vol. 39. 3 pp.

Describes principles and methods on which work of the Press Bureau is conducted.

¶ *Books and Periodicals :*

Edinburgh Review, Jan. 1915 (vol. 221), pp. 204–24. 'Militarismus Abroad and at Home.' (Editorial article.)

Includes (pp. 210–17) a criticism of the methods of the Press Bureau.

Headlam, Cecil. 'The Censorship of the Press,' in *Q. R.*, July 1920 (vol. 234), pp. 132–46.

Defends Official Press Bureau against criticisms levelled against it. Describes its formation, gradual alterations in its administration, work achieved, &c., and makes suggestions for improved methods of press censorship.

Redwood, Hugh. 'News in War Time,' in *C. R.*, Nov. 1914 (vol. 106), pp. 651–7.

Criticizes methods of the Press Bureau and Censorship at Central Telegraph Office.

SUPPLEMENT

CLASSIFIED LIST OF PARLIAMENTARY AND OFFICIAL PUBLICATIONS, JAN. TO JUNE 30, 1921.[1]

I B. PUBLIC HEALTH.

1. GENERAL

Ministry of Health. Encephalitis Lethargica, Memorandum on, Feb. 1921. H.M.S.O. 1*d.*

—— National Health Insurance Fund Accounts for 1918. No. 12. 6*d.*

—— National Health Insurance Joint Committee. Report of Departmental Committee on Approved Societies' Administration Allowance. Cmd. 1291. 3*d.*

—— Public Health and Medical Subjects, Reports on, No. 4. Pandemic of Influenza, 1918–19. H.M.S.O. 10*s.*

—— Sanatoria and other Residential Institutions approved by Ministry of Health for treatment of persons suffering from Tuberculosis, May 1921. H.M.S.O. 3*d.*

—— Voluntary Hospitals Committee. Int. Report. Cmd. 1206. 1*d.* Final Report. Cmd. 1335. 4*d.*

Scotland. Board of Health. Annual Report for 1920. Cmd. 1319. 3*s.* 6*d.*

3. LUNACY

Ireland. Lunacy, Annual Report on, for 1919. With Appendices. Cmd. 1127. 9*d.*

4. MATERNITY AND CHILD WELFARE

Ministry of Health. Maternity and Child Welfare Centres and Day Nurseries in England and Wales, Jan. 1, 1920. List 11. H.M.S.O. 2*s.*

I C. HOUSING

Board of Trade. Profiteering Acts, Building Materials, Reports by Sub-Committee on. — Light Castings. Cmd. 1200. 2*d.*— Stone, Brick and Clayware Trades (Final Report). Cmd. 1209. 2*d.*

—— *Ibid.* Slates, Report on, by Sub-Committee of Standing Committees on Prices and Trusts. Cmd. 1338. 1*d.*

Ministry of Health. Accounts, Housing. Assisted Schemes of Local Authorities. Notes and Exemplifications. H.M.S.O. 12*s.* 6*d.*

—— Costing for House Con-

[1] These publications have not been examined and have therefore been only roughly classified. The prices are given as affording some indication of the size of the publication.

struction, Memorandum on system of. H.M.S.O. 9*d.*

—— Wages and Working Conditions of Unskilled Men employed on road and sewer work in connexion with State-aided Housing Schemes. General Housing Memorandum, No. 47, May 21, 1921. H.M.S.O. 1*d.*

—— Weekly Rents assented to by Minister of Health for Houses erected under State-assisted Housing Schemes, and Rules under which such weekly rents are determined, Return as to. No. 18 (H.L.). 1*d.*

—— *Housing.* Nos. 39 to 46 (Publication suspended). 3*d.*

Office of Works, H.M. Housing Schemes now being undertaken by H.M. Office of Works on behalf of Local Authorities in England and Wales, Schedule of particulars relating to. Cmd. 1175. 1*d.*

Registry of Friendly Societies. Building Societies, Co-operative Societies and Trade Unions, Statistical summaries of operations of. H.M.S.O. 6*d.*

Scotland. Board of Health. Annual Report for 1920. Cmd. 1319. 3*s.* 6*d.*

—— *Ibid.* Housing, Town Planning, &c. (Scotland) Act, 1919, Summary of Returns made to the Board in terms of sec. 23 of, for half-year ended Sep. 30, 1920. Cmd. 1178. 1*d.*

—— *Ibid.* State-aided Housing Schemes, General Specification. H.M.S.O. 6*d.*

Treasury. Housing Act, 1914. Account showing money issued out of Consolidated Fund, money borrowed, and expenditure of a capital nature incurred by Scottish Board of Health and Commissioners of Works for 1919–20. No. 5. 1*d.*

I D. EDUCATION

Board of Education. Higher Education (England and Wales). Statistics relating to receipts and expenditure of Local Education Authorities in 1918–19. Cmd. 1154. 6*d.*

—— Teachers, intending, Statement showing number of, 1919–20. H.M.S.O. 1*s.*

—— Teachers in public elementary schools, England and Wales, Standard scales of salaries for. Correspondence in Jan. 1921, between President of Board of Education and Chairman of Standing Joint Committee upon the Committee's Reports of Sep. 30, and Dec. 16, 1920. H.M.S.O. 2*d.*

—— *Ibid.* Report on Standard Scale I (Supplementary to Report of Standing Joint Committee). H.M.S.O. 1*d.*

—— (Welsh Department). Teachers, intending, Statement showing number of recognized, during 1919–20, and percentage of this number to number of posts on Jan. 31, 1915. H.M.S.O. 9*d.*

—— Welsh Intermediate Education Act, 1889, Report for 1920 under. Cmd. 1282. 2*d.*

Home Office. Byelaws made by London County Council under Employment of Children Act, 1903, and Education Act, 1918, Report on, and on objections thereto. Cmd. 1122. 2*d.*

Ireland. Teachers, Intermediate, Salaries of, Rules for distribution of an interim grant of £50,000 for supplementing, 1920–1. Cmd. 1348. 1*d.*

Scotland. Scottish Education Department. Annual Report of Committee of Council on Education for 1920–1. Cmd. 1266. 4*d.*

—— *Ibid.* Continuation Classes and Central Institutions, 1919–20 and 1920–1, Reports and Statistics relating to. H.M.S.O. 2*s.* 6*d.*

—— *Ibid.* Reports, &c., 1919–20. H.M.S.O. 15*s.*

—— *Ibid.* General Reports for 1920, by Chief Inspectors of Schools in Scotland. H.M.S.O. 2*s.*

—— *Ibid.* Teachers, Training of. Reports, Statistics, &c., 1919–20. H.M.S.O. 2*s.*

Treasury. University Grants Committee. Report of, Feb. 3, 1921. Cmd. 1163. 3*d.*

—— *Ibid.* Returns from Universities and University Colleges in receipt of Treasury grant, 1919–20. Cmd. 1263. 3*s.* 6*d.*

I E. PUBLIC ORDER

Home Office. Constabulary, Reports of H.M. Inspectors of, for 1919–20. No. 39. 4*d.*

—— Judicial Statistics, England and Wales, 1919. Pt. 2. Civil Judicial Statistics. Cmd. 1362. 9*d.*

—— Police of the Metropolis, Report of Commissioner of, for 1920. Cmd. 1294. 6*d.*

Ireland. Reformatory and Industrial Schools, Report of Inspector of, for 1919. Cmd. 1128. 3*d.*

II. ADMINISTRATION

A. MACHINERY OF GOVERNMENT

Treasury. Expenditure, present and pre-war, Memorandum on, with particulars of Government staffs at certain dates. Cmd. 1304. 2*d.*

—— Ex-service Men, appointment of, to posts in Civil Service, Committee on. 2nd Int. Report. H.M.S.O. 1*d.*

—— Ex-service Men, Statements relating to employment of, in Government offices on July 1, 1919, and Nov. 1, 1920, &c. (monthly to May 1, 1921). Cmd. 1104, 1121, 1151, 1171, 1245, 1288, 1359. 1*d.* each.

—— Salaries of principal posts in Civil Service, Report of Committee on. Cmd. 1188. 1*d.*

—— Staffs of Government Departments, Statements showing, on Dec. 1, 1920, &c. (monthly to May 1, 1921). Cmd. 1109, 1152, 1196, 1289, 1290, 1358. 1*d.* each.

B. GOVERNMENT REGULATION AND CONTROL (GENERAL)

Admiralty. Navy, Appropriation Account, 1919–20. No. 56. 2*s.*

Air Ministry. Air Services, Appropriation Account, 1919–20. No. 62. 9*d.*

Committees. Committee of Public Accounts. 1st and 2nd Reports. Nos. 36, 40. 1*d.* each.

Ministry of Shipping. Appropriation Account, 1919–20. No. 55. 1*d.*

Treasury. Civil Services and Revenue Departments, Appropriation Accounts, 1919–20. No. 4. 6*s.*

—— *Ibid.*, Appropriation Accounts of certain unclassified Services, 1919–20. No. 73. 1*s.*

—— Trading Accounts and Balance Sheets relating to services undertaken during the war in connexion with War Materials and Food Supplies, and to normal services of Government Departments. Cmd. 1368. 3*s.* 6*d.*

—— Vote of Credit. Statement showing cash transactions in 1919–20 in respect of Vote of Credit excess receipts from trading services to Mar. 31, 1919; and of trading and other operations financed from these receipts, &c. Cmd. 1367. 1*d.*

War Office. Army, Appropriation Account, 1919–20. No. 72. 3*s.*

C. LOCAL GOVERNMENT

Scotland. Board of Health. Annual Report for 1920. Cmd. 1319. 3*s.* 6*d.*

III. INDUSTRY AND COMMERCE

A 2. EXPORTS AND IMPORTS

Board of Trade. Trade and Navigation of U.K., Monthly Accounts relating to, Jan. to May 1921. Nos. 26 to 26-iv.

Ireland. Dept. of Agriculture. Trade in Imports and Exports at Irish Ports during 1919, Report on. Cmd. 1105. 1*s.* 6*d.*

3. BLOCKADE AND TRADING WITH ENEMY

Treasury. Supreme Court (Prize, &c., Deposit). Account for 1919–20, and for period Aug. 4, 1914 to May 31, 1920. No. 97. 1*d.*

4. a. TRADE COMBINATIONS

Board of Trade. Profiteering Acts. Reports by Sub-Committees of Standing Committee on Investigation of Prices:—

Agricultural Implements and Machinery. Cmd. 1315. 2*d.*

Boots, Shoes and Footwear, Repairing of. Cmd. 1345. 1*d.*

Brushes and Brooms. Cmd. 1275. 2*d.*

Dyeing and Cleaning. Cmd. 1361. 2*d.*

Motor Fuel (2nd Report). Cmd. 1119. 2*d.*

Pottery. Cmd. 1360. 2*d.*

Wool, Tops and Yarns (Report on Top-making Trade). Cmd. 1192. 4*d.*

—— *Ibid.* Reports by Sub-Committees of Standing Committee on Trusts:—

Cotton, Sewing (3rd Report). Cmd. 1173. 1*d.*

Dyeing, Finishing, Bleaching and Printing. Cmd. 1371. 1*d.*

Dyes and Dyestuffs. Cmd. 1370. 4*d.*

Electrical Cable Industry. Cmd. 1332. 1*d.*

Explosives Industry. Cmd. 1347. 2*d.*

Iron and Steel Products (Cut Nails, Bolts and Nuts, and Horse Nail Trades). Cmd. 1268. 2*d.*

Meat (Final Report). Cmd. 1356. 2*d.*

Pipes and Castings. Cmd. 1217. 1*d.*

Soap Industry. Cmd. 1126. 3*d.*

Vinegar. Cmd. 1355. 1*d.*

Yeast. Cmd. 1216. 2*d.*

—— *Ibid.* Reports by Sub-Committees of Standing Committees on Investigation of Prices and Trusts :—

Boot and Shoe Scheme, Standard (2nd Report). Cmd. 1269. 1*d.*

Building Materials. Light Castings. Cmd. 1200. 2*d.*

—— Stone, Brick, and Clayware Trades (Final Report). Cmd. 1209. 2*d.*

Clothing, Standard, voluntary scheme for. Cmd. 1314. 2*d.*

Clothing, Uniform. Cmd. 1339. 2*d.*

Coal, Scheme for maximum retail prices for, in London. Cmd. 1161. 2*d.*

Slates. Cmd. 1338. 1*d.*

5. PATENTS AND TRADE MARKS

Board of Trade. Patents, Designs and Trade Marks, Reports of Comptroller-General of, for 1920. No. 74. 2*d.*

B. AGRICULTURE

1. GENERAL

Board of Trade. Profiteering Acts. Agricultural Implements and Machinery, Report on, by Sub-Committee of Standing Committee on Investigation of Prices. Cmd. 1315. 2*d.*

Ireland. Dept. of Agriculture. Report of Proceedings under Diseases of Animals Acts, with returns of Exports and Imports of Animals for 1919. Cmd. 1169. 3*d.*

Ministry of Agriculture. Statistics, Agricultural, 1920. Pt. 2. Cmd. 1211. 3*d.* Pt. 3. Cmd. 1363. 6*d.*

Scotland. Board of Agriculture. Annual Report for 1920. Cmd. 1306. 1*s.*

—— *Ibid.* Statistics, Agricultural, 1919. Pt. 3. Cmd. 1225. 3*d.* — *Ibid.*, 1920. Pt. 1. Cmd. 1296. 6*d.* Pt. 2. Cmd. 1297. 2*d.*

2. ALLOTMENTS AND SMALL HOLDINGS

Ministry of Agriculture and Fisheries. Small Holding Colonies Acts, 1916 and 1918, Report of Proceedings under, for 1919–20. Cmd. 1184. 6*d.*

Scotland. Board of Agriculture. Small Holding Colonies Act, 1916, Statement showing financial position of certain properties acquired under. Cmd. 1234. 1*d.*

F. FISHERIES

Ministry of Agriculture and Fisheries. Sea Fisheries, Statistical Tables, 1919–20. (In lieu of Pt. 2 of Sea Fisheries Report for the same period). H.M.S.O. 6*s*.

G. FOOD CONTROL

1. GENERAL

Board of Trade. Profiteering Acts. Vinegar, Report on, by a Sub-Committee of the Standing Committee on Trusts. Cmd. 1355. 1*d*.

Ministry of Food. Wholesale Food Markets of London, Committee on. 3rd Report. Cmd. 1168. 4*d*.—4th, 5th, and Final Reports. Cmd. 1341. 4*d*.

2. BREAD, FLOUR AND WHEAT

Board of Trade. Profiteering Acts. Yeast, Report on, by Sub-Committee of Standing Committee on Trusts. Cmd. 1216. 2*d*.

4. MEAT

Board of Trade. Profiteering Acts. Meat, Final Report on, by Sub-Committee of Standing Committee on Trusts. Cmd. 1356. 2*d*.

5. MILK

Board of Agriculture and **Ministry of Food.** Milk, cost of production of, Final Report of Agricultural Costings Committee on an investigation into, from Oct. 1, 1919, to Sep. 30, 1920. Cmd. 1305. 3*d*.

7. SUGAR

Commissions, Royal. Sugar Supply, Royal Commission on. 2nd Report. Cmd. 1300. 2½*d*.

I. LIQUOR TRADE

Central Control Board (Liquor Traffic). Carlisle and District Direct Control Area. General Manager's Report for 1920. Cmd. 1252. 2*d*.

Commission, Royal. Defence of the Realm (Licensed Trade Claims) Commission Report. Cmd. 1265. 2*d*.

Home Office. Licensing Statistics, 1921. Returns. I. Premises licensed for sale of intoxicating liquors by retail, and Registered Clubs, in each licensing district on Jan. 1, 1921. 2*d*. I (a). Number of Licensed Premises and Registered Clubs on Jan. 1, 1922. 1*d*. I (b). Explanation of variation between figures for Jan. 1, 1922, and Jan. 1, 1921. 1*d*. II. Offences by Licensed Persons or in relation

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5. OIL

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—— Civil Aviation, Half-yearly Report on progress of, Oct. 1, 1920 to Mar. 31, 1921. Cmd. 1342. 6*d.*

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—— Railway Agreements, Departmental Committee on. Report and Appendices. Cmd. 1132. 3*s*. Minutes of Evidence. H.M.S.O. 25*s*.

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—— Railway Returns. Return relating to Standard Gauge Railways of Great Britain for 1920. (Preliminary Statement). Cmd. 1256. 1*d*.

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2 a. State of Employment, Relief of War Distress, Poor Relief

Local Government Board. National Relief Fund, Final Report on administration of, up to Mar. 1, 1921. Cmd. 1272. 3*d*.

Scotland. Board of Health. Annual Report for 1920. Cmd. 1319. 3*s*. 6*d*.

2 c. Unemployment Insurance

Ministry of Labour. National Insurance (Unemployment) Acts. Account of Unemployment Fund, 1918–19. No. 32. 1*d*.

2 d. Organization of Man-Power

Ministry of Labour. Employment Exchanges, Committee of Inquiry into work of. Minutes of Evidence. Cmd. 1140. 5*s*.

War Office. British Army, General Annual Reports on, for the period from Oct. 1, 1913 to Sep. 30, 1919.[1] Cmd. 1193. 1*s*.

[1] For contents, *vide supra*, pp. 2, 388.

4. WAGES, COMPENSATION, ETC.

Home Office. Workmen's Compensation Act, 1906, and Employers' Liability Act, 1880, Statistics of Compensation and Proceedings under, during 1919. Cmd. 1185. 3*d*.

Ministry of Labour. Wages, Standard time rates of, and hours of labour in the United Kingdom at Dec. 31, 1920. Cmd. 1253. 2*s*. 6*d*.

5. CONDITIONS OF EMPLOYMENT

a. General

Medical Research Council and **Dept. of Industrial and Scientific Research.** Industrial Fatigue Research Board. Report, No. 13. A Statistical Study of Labour Turnover in Munition and other Factories. H.M.S.O. 3*s*.

c. Accidents and Sickness

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6. DISPUTES, INDUSTRIAL UNREST, ARBITRATION AND CONCILIATION

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—— Industrial Courts Act, 1919. Tramway Industry, Report by Court of Inquiry concerning dispute in. No. 37. 2*d*.

7. INDUSTRIAL COUNCILS AND WORKS COMMITTEES

b. In Government Establishments

Civil Service National Whitley Council. Cost of Living, Report of Committee on. Cmd. 1107. 1*d*.

—— Re-organisation Committee. Final Report. H.M.S.O. 3*d*.

8. TRADE UNIONS AND FRIENDLY SOCIETIES

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—— Building Societies, Co-operative Societies and Trade Unions, Statistical summaries of operations of. H.M.S.O. 6*d*.

9. CO-OPERATION

Registry of Friendly Societies. Building Societies, Co-operative Societies and Trade Unions, Statistical summaries of operations of. H.M.S.O. 6*d*.

V B. THE AGRICULTURAL LABOURER

2. STATE OF EMPLOYMENT

Board of Agriculture. Agricultural Wages Board. Unemployment Insurance in Agriculture, Report of Committee on. Cmd. 1344. 2*d.*

3. WAGES AND CONDITIONS OF EMPLOYMENT

Scotland. Board of Agriculture. Farm workers in Scotland in 1919–20[1]. H.M.S.O. 7*s.*

V D. WOMEN

1 d. Employment in Civil Service

Civil Service Commission. Civil Service, Regulations for competitions governing appointment of women to situations in new (reorganization) classes in, and with regard to appointment and employment of married women in established situations. Cmd. 1116. 1*d.*

—— Sex Disqualification (Removal) Act, 1919. Regulations reserving to men certain branches of and posts in the Civil Service in H.M. Possessions Overseas and in Foreign Countries. Cmd. 1244. 1*d.*

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Home Office. Police Duties, Employment of women on, Committee on. Minutes of Evidence. Cmd. 1133. 2*s.*

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B. PENSIONS AND ALLOWANCES

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—— Local War Pensions Committees' Handbook. 2nd ed. Jan. 1, 1921. H.M.S.O. 2*s.*

C. DEMOBILIZATION AND RESETTLEMENT

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[1] For contents *vide supra*, p. 464.

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—— Public Income and Expenditure. Account for 1920–1. No. 90. 1*d.*

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War Office. Military Savings Banks, Account for 1919–20. No. 64. 1*d.*

G. TAXATION

Law Reports. Reports of Tax Cases. Vol. 7. Pts. III, IV, V, VI, VIII. H.M.S.O. 9*d.* to 2*s.* 6*d.* each.

VIII A. PRICES

Board of Trade. Profiteering Acts, Reports under. *Vide* § III, A, 4, a, *supra*, pp. 609–12.

IX. MISCELLANEOUS

A 1. WAR CHARITIES

Charity Commission. Annual Report for 1920. Cmd. 1198. 4*d.*

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